INTARCON

REFRIGERATION UNITS
COMMERCIAL RANGE

2025

INTARCON

INTARCON, is a Spain-based company dedicated to designing, manufacturing, marketing commercial and industrial refrigeration units.

Our mission at INTARCON is to develop and offer the market a wide range of innovative solutions for the most reliable, efficient and sustainable operation of refrigeration facilities.

The INTARCON team has valuable experience in the field of refrigeration, focusing its R&D efforts on the development of a wide range of long-term energy-efficient and zero-greenhouse gas solutions.

more than
70.000
supplied units

at more than
50
countries

with more than
400
employees

INTARCON

Reliability
Efficiency
Sustainability

Technology

Engineering excellence is in our corporate DNA. Our innovative strategy combines technology development based on well-known solutions, with innovative projects in new technologies.

Team

The commitment, know-how and experience of our employees is our greatest strength, with more than 25 % of our staff being university trained engineer, which makes us a highly technological company.

Markets and clients

Present on five continents and with subsidiaries in the Netherlands, Turkey, France and Switzerland, we develop and promote the dissemination of knowledge to create and reinvent markets through a strong focus on the customer and their needs.

Service

With a great technical capacity and a high knowledge of refrigeration systems and installations, we give international and national customer service.

Quality and environment

We supply products that exceed our customer's expectations, developing environmentally friendly products with optimal management of production waste.

Production capacity

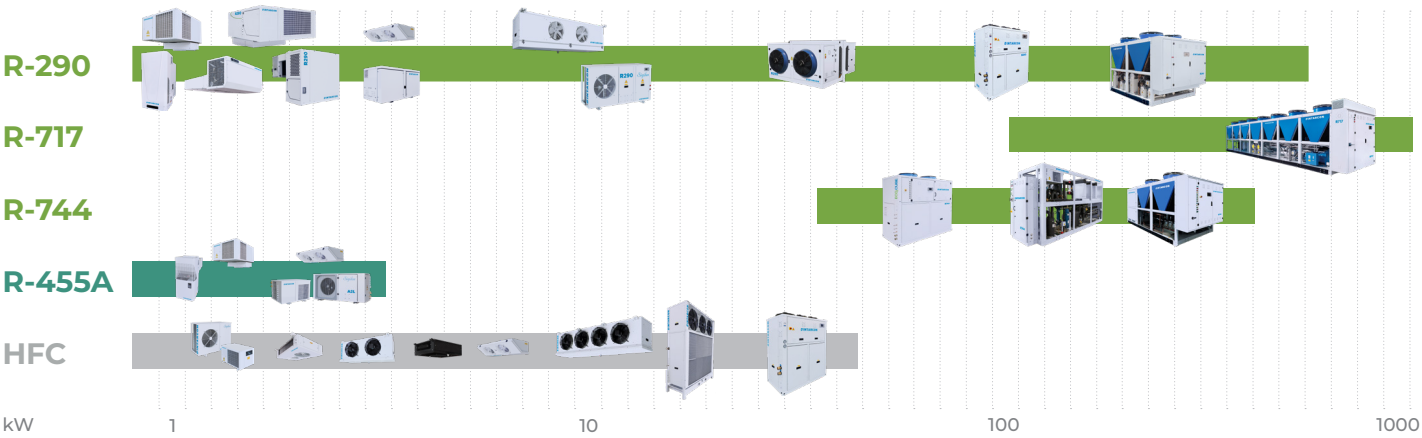
Adaptive flexibility in the manufacture of different products contributes to our customer service.
Our factory is located in Lucena, in the south of Spain, with a total surface area of 18 000 m².

TÜVRheinland®

CE

RoHS COMPLIANT

ErP ecodesign



PROPANE COMMERCIAL RANGE

R-290 commercial monoblocks

- The PRO compact range has been designed by and for technicians.
- New PRO wall-mounted compact units with cubic aluminium evaporator.
- New PRO roof compacts, simple assembly, manufactured in two parts that allow opening and quick access to the inside of the evaporator from the roof of the chamber.
- Ultra-compact refrigeration units for mini cold rooms.
- Easy Plug & Play installation directly on the ceiling, door or wall of the cold room.

R-290 waterloop system

- R-290 water-cooled condensing units. Waterloop evaporator units with compressor for installation inside small cold rooms, designed with natural refrigerant R-290 and waterloop condensed.
- Compact rooftop PRO range of R-290 water cooled condensing units.
- R-290 water cooled condensing evaporator.
- R-290 low noise air-condensing chillers.
- Air-coolers with hydraulic group.

A2L commercial range

A2L monoblocks

- Refrigeration units for medium and small cold rooms.
- Easy and Plug & Play installation for wall, door or roof-top installation.
- R-455A low greenhouse refrigerant.

A2L split system

- Split system for medium and small cold rooms.
- R-455A pre-charge units.
- Low noise units and de relative condensation units with slim-type evaporator.

HFC COMMERCIAL RANGE

HFC split system

- Split system for medium and small cold rooms.
- Pre-charge units exempt from leak checks.
- Moderate-greenhouse refrigerants R-134a and R-449A.
- Low noise units and de relative condensation units.

HFC condensing units

- Tropicalised design, low noise and centrifugal fan.
- Ecodesign certification.
- Versions with electronic controller and multiservice.

HFC waterloop system

- R-134a and R-449A water-cooled condensing units for installation on the furniture, on the floor or anchored at the wall.

Refrigeration **solutions** that adapt to the needs of the most **demanding** sectors

Commercial refrigeration

Modern industrial kitchens in hotels, restaurants and hospitals have a variety of medium and low temperature cold rooms, together with a certain refrigeration demand in high temperature processing rooms, to which must be added the important refrigeration requirements of blast chillers in cold line kitchens. The refrigeration installations for this type of application must not only supply the necessary cold at different temperatures, but must also often have a low noise level.

Dani García Group
Spain

Amarande Hotel
Cyprus

Industrial refrigeration

Industrial refrigeration installations are an essential part of the food and beverage processing industries, so the reliability and precision of the equipment is key to the quality of the process. In bakery industries, for example, cooling is essential for optimal product preparation and preservation.

Alestis Aerospace
Spain

Cooperl
France

Supermarkets

Supermarkets are characterised by a high number of small refrigeration services at medium and low temperatures, together with significant thermal requirements for the air-conditioning of the sales room. INTARCON offers integral solutions that meet the cooling and air conditioning needs of the supermarket, taking advantage of the synergies of refrigeration production in summer and heat recovery in winter heat recovery.

Aldi
Europe

Carrefour
Dominican Republic

Other applications

Sometimes refrigeration technology goes beyond food preservation or freezing applications or industrial processes to cover the most remote and unexpected needs, the original design philosophy of manufacturing (ODM) is the method for success.

CEIS laboratories
Spain

Astrophysical
Observatory
Javalambre
Spain

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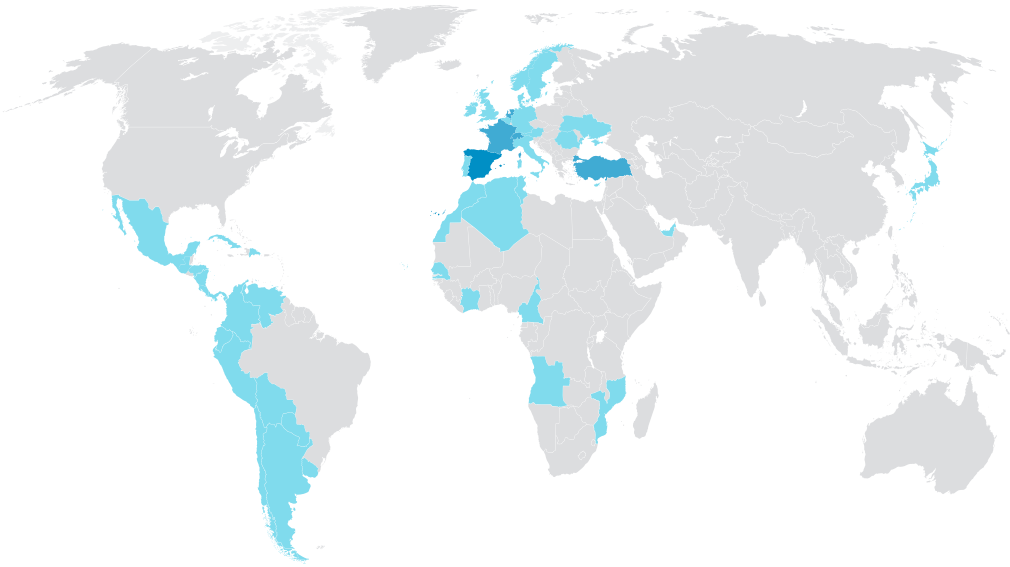


Europe

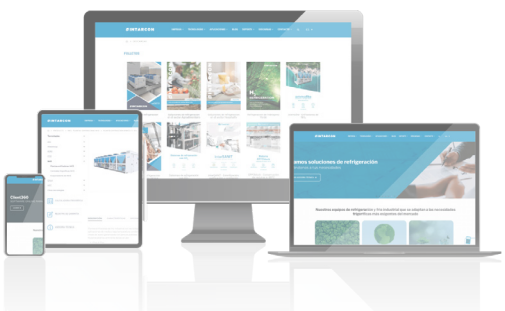
Austria
Belgium
Denmark
France
Germany
Ireland
Italy
Netherlands
Norway
Portugal
Romania
Spain
Sweden
Switzerland
Turkey
United Kingdom

America

Argentina
Bolivia
Chile
Colombia
Costa Rica
Cuba
Dominican Rep.
Ecuador
El Salvador
Honduras
Mexico
Panama
Paraguay
Peru
Uruguay
Venezuela

Africa

Angola
Algeria
Cameroon
Ivory Coast
Morocco
Mozambique
Tunisia



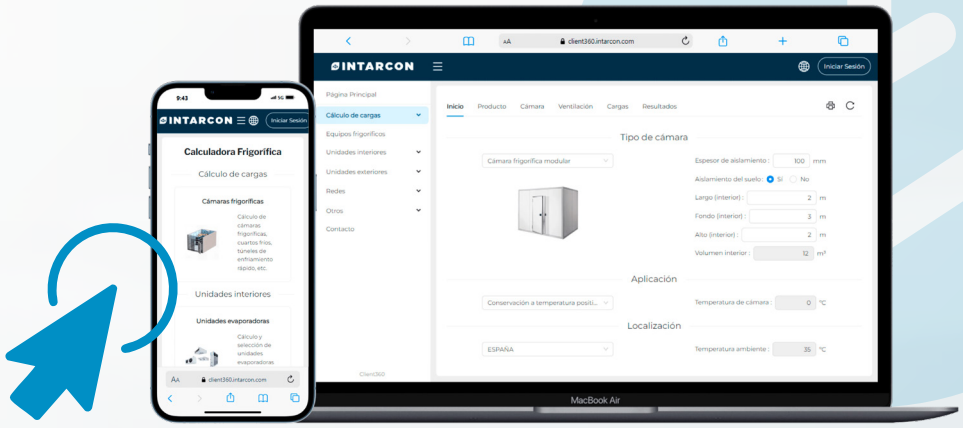
Maximum **quality** in our products and excellence in our **services**

www.intarcon.com

A new ecosystem in the **comprehensive management** of **refrigeration** projects

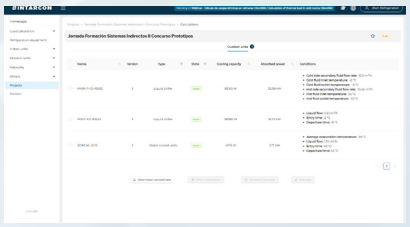
client360.intarcon.com

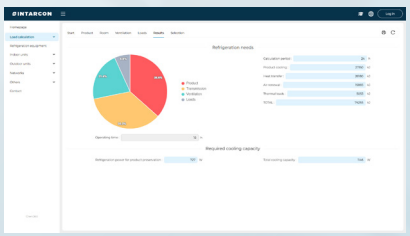
REFRIGERATION CALCULATION SOFTWARE

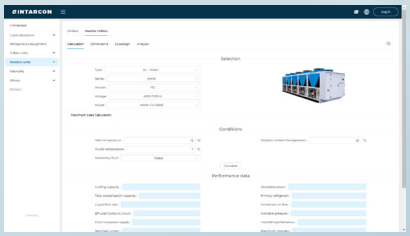


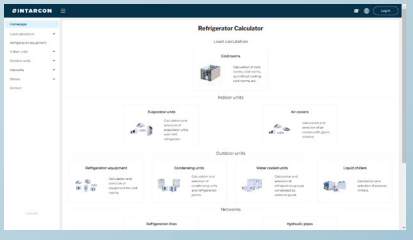
SING UP ADVANTAGES

- **Integrated project management**
  Create, track and manage all your projects in one place.
- **Real-time collaboration**
  Share your projects quickly and easily with your local sales representative and work together in real time, optimising coordination and efficiency.
- **Calculation and document storage**
  Save all calculations relative to your projects, including data sheets, cold room calculations, pipe runs and more, for instant access.
- **Automatic calculation summary**
  Get an automatic summary table of all your calculations sorted by type, with details such as calculation conditions, cooling capacity, equipment selection, and more functionalities...
- **Quick edit and duplicate calculations**
  Easily modify or duplicate calculations, acelerating the update process and allowing you to quickly adapt to any changes in your works.
- **Centralisation of documentation**
  Upload layout, specifications, reports and all documentation related to your projects in one place for greater organisation and accessibility.
- **Customisation and shortcuts**
  Customise the language, unit system and create shortcuts to your favourite website sections and external webs, all from your account.









What is Client360?

Client360 is a new software developed by INTARCON for the integrated management of your refrigeration projects. This platform is designed to offer a more intuitive, efficient and customised experience during the refrigeration calculation.

What are its advantages?

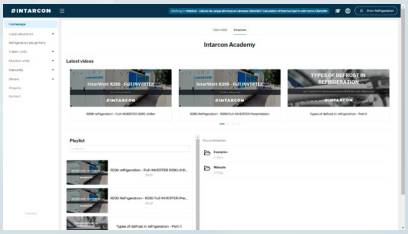
Our new software incorporates a series of functionalities that make it a necessary tool for your projects:

- **Improved and more attractive interface**
  Enjoy a new look and feel and organisation of elements that make Client360 more intuitive and easier to use.

- **Advanced chiller calculations**
  Our full inverter chiller plant models with R-290 now allow part-charge calculations for a given power limit, optimising performance under all conditions.

- **New inverter chiller models**
  Add to your projects the new WK-FHD water-cooled R290 inverter models, design for negative, positive and high temperature applications. Automatic monthly update.

- **Automatic monthly updates**
  Including improvements and new functionalities.



Engineering excellence is in our corporate DNA

REFRIGERATION CALCULATION SOFTWARE

INTARCON

With Client360, you not only take your work efficiency to the next level, but also transform the organisation and management of all your projects.

Sign up and discover all that our platform has to offer!

CLIENT 360

Icon legend

REFRIGERANT TYPE

R-290

R-744

R-717

R-455A

HFC

POWER SUPPLY

50Hz 230V/400V

50Hz 230V

50Hz 400V

COMPRESSOR TYPE


Hermetic


Semihermetic


Rotary


Scroll


Scroll Inverter


Screw

EXPANSION TYPE


Thermostatic valve


Electronic valve


Capillary expansion

FAN TYPE


Axial

Axial EC


Centrifugal


Radial

DEFROST TYPE


Electric defrost


Air defrost


Hot gas defrost

OTHER FEATURES

Double refrigeration circuit


Anti-corrosion coil coating


Stainless steel serpentine


Self-regulating drainage resistance

Aluminium evaporator


Refrigerant pre-charge


Low refrigerant charge

VRC capacity modulation


Exempt from leak checking


Heat recovery


Heat mode setting


Meat maturation


Active humidity control


Passive humidity control


Washable air filters


Removable condensate pan


Double acoustic insulation


Triple acoustic insulation


Built-in hydraulic group


No water consumption


Waterloop system


Connected services

45 °C ambient temperature

50 °C ambient extérieure

ADVANTAGES AND BENEFITS


100% natural solution


Complies with Eco-design


Energy efficiency


Reliability


Low investment cost


Plug & Play


Easy and safe installation


Smart solution


Health and safety


Factory tested


Adapted design


High cooling capacity


Wide power range


Very compact design


Reliable cold distribution


Low noise

PRODUCT RANGE BY REFRIGERANT TYPE


Natural


A2L


HFC

Product codification

SERIE			VERSION		MODEL		
M	D	M	N	D	1	017	A

Application

Positive temperature	M
Negative temperature	B
High temperature	A
High relative humidity	H
Wine cellar	V
Dry-cooler	C

Configuration

Compact	C
Split system	S
Condensing unit	D
Chiller	W
Evaporating unit	J

Structure

Vertical	V
Roof-top	R
Door	P
Horizontal	H
Low noise	F
Wall-type	M
Double flow	D
Commercial cubic-type	C
Slim type evaporating unit	B

Version

Axial vertical condensation (PRO range)	NP
Axial vertical condensation	N
Centrifugal condensation	C
Water condensation	H
Weatherproof	I
Ultra-slim	L
Cubic-type evaporator	Q
Double flow evaporator	D
Quasi-static evaporator	U
Wine cellar evaporator	G
Scroll compressor, axial condensation	S
Scroll compressor, centrifugal conden.	SC
Rotary compressor	P
VRC system, axial condensation	V
VRC system, centrifugal condensation	CV

Refrigerant

R-134a	Y
R-290	D
R-449A	G
R-452A	B
R-455A	N

Model

Construction size	
Compressor capacity	

Frequency

50Hz	A
60 Hz	B

Index

Quick cold room calculation

The chart below shows recommended cooling needs for high temperature process rooms and cold rooms at positive and negative temperature according to the calculation basis.

	Cold room volume (m³)	Recommended cooling needs for standard process handling rooms and cold storage rooms (W)				
		HIGH TEMPERATURE (12 °C)		POSITIVE TEMPERATURE (0 °C)		NEGATIVE TEMP. (-20 °C)
		No floor panel		Floor panel	No floor panel	
		50 mm insulation	Without insulation	80 mm insulation		100 mm insulation
COMMERCIAL COLD ROOMS	5			700	900	700
	10	1 300	2 300	1 200	1 500	1 100
	15	1 600	2 700	1 600	2 000	1 400
	20	1 900	3 400	1 900	2 400	1 700
	25	2 300	4 000	2 300	2 800	2 000
	30	2 600	4 500	2 600	3 300	2 200
	40	3 200	5 600	3 200	4 000	2 700
	50	3 800	6 600	3 800	4 800	3 100
	60	4 400	7 600	4 400	5 400	3 600
	75	5 100	9 000	5 100	6 400	4 200
	100	6 400	11 100	6 400	8 000	5 100
	125	7 500	13 100	7 500	9 400	5 900
	150	8 600	15 100	8 600	10 800	6 700
	175	9 700	16 900	9 700	12 100	7 500
	200	10 700	18 700	10 700	13 300	8 200
	250	12 600	22 100	12 600	15 800	9 600

Unit capacity correction

Cooling capacity indicated in this catalogue are based on the cooling performance of the unit with 35 °C ambient temperature.

To obtain cooling capacity of the unit under other ambient temperature values it is recommended to apply the following correction factors:

	Ambient temperature	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
POSITIVE TEMP.	F_a: Cooling capacity factor	1.23	1.15	1.08	1.00	0.92	0.84
	F_b: Input power factor	0.81	0.88	0.94	1.00	1.07	1.13
NEGATIVE TEMP.	F_a: Cooling capacity factor	1.33	1.22	1.11	1.00	0.89	0.77
	F_b: Input power factor	0.85	0.91	0.96	1.00	1.03	1.05

$$\text{Cooling capacity} = F_a \times P_{frig.|35\,°C}$$

$$\text{Input power} = F_b \times \text{Input power}_{|35\,°C}$$

$$\text{Cooling capacity}_{|35\,°C} = \frac{\text{Corrected cooling capacity}}{F_a}$$

Cooling needs calculation basis for cooling needs

Cooling needs shown for each cold room volume in product technical features charts in this catalogue have been calculated according to the following assumptions:

- Ambient temperature: 35 °C.
- Charge density: 250 kg/m³.
- Daily rotation rate depending on cold room volume: 10 % (V≤100 m³), 8 % (100 m³<V).
- Product specific heat PT: 3,2 kJ/(kg·K), NT: 1,8 kJ/(kg·K).
- Product inlet temperature: 25 °C (PT) y -5 °C (NT).
- Insulation panel: Injected polyurethane with 40 kg/m³ density and 0,025 W/(m·K) conductivity, 80 mm (PT) and 100 mm (NT) thick and floor panel.
- 18 daily hours compressor operation time.

Correction of refrigeration needs

To obtain the corrected cooling charge for a cold room with special characteristics, the application of a series of correction factors is proposed, based on the following:

$$Q_{\text{corrected cooling capacity}} = Q_{\text{cooling capacity}} \times F_1 \times F_2 \times F_3 \times F_4$$

Where correction factors adopt the following values:

F1: Ambient temperature

The following correction factors can be used to obtain the cooling charge at an ambient temperature other than the calculation temperature of 35 °C:

- Ambient temperature of 40 °C: **F1 = 1,05**
- Ambient temperature of 45 °C: **F1 = 1,10**

F2: Breathing of fruit and vegetable products

The ripening process of fruit and vegetable products in positive temperature storage produces a considerable amount of heat. This breathing heat can represent, depending on the type of product, up to 50 % additional cooling charge.

For indicative purposes, we suggest a factor: **F2 = 1,25**

F3: High product turnover rate

The cooling capacities indicated in the table have been obtained with a conventional product rotation, according to calculation basis. A high product turnover of twice the rotation rate considered can represent up to an additional 50 % of refrigeration needs. **F3 = 1,50**

F4: Reduced insulation thickness

A lower insulation thickness than the recommended values means a small increase in the cooling load. As a guideline, reducing the insulation thickness by 20 mm: **F4 = 1,10**

Calculation example

Calculation of an 80 m³ apple conservation cold room, isolated with an 80 mm thickness refrigeration panel, with uninsulated floor:

1. From the values in the table, the reference refrigeration charge for 80 m³ is interpolated.

$$Q_{\text{cooling capacity}} = 7\,200\ W$$

2. The correction factor for the heat of respiration of fruit and vegetable products is applied: $F_2 = 1,25$

$$Q_{\text{corrected cooling capacity}} = Q_{\text{cooling capacity}} \times 1,25 = 9\,000\ W$$

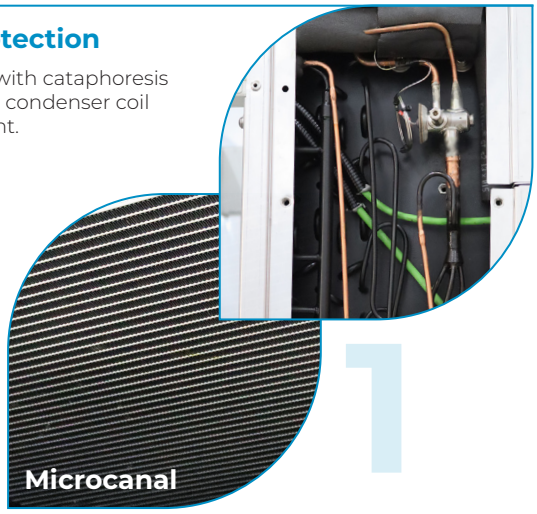
INTARCON

Compact refrigeration units for wall, door or roof-top installation

Commercial monoblocks R290

Exchangers with protection

Tube and fin evaporator coil with cataphoresis treatment and microchannel condenser coil with polyester paint treatment.



1

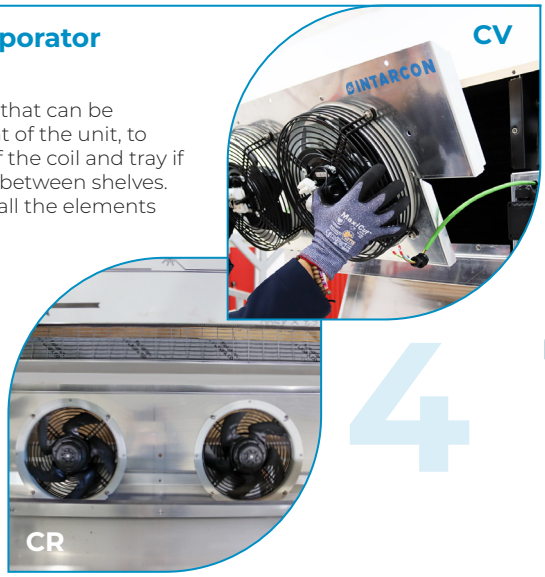
Electronic fans

Electronic fans with condenser speed regulation, minimising energy consumption and noise.

New developments R290

Removable evaporator front register

Front panel with fans that can be opened from the front of the unit, to access the cleaning of the coil and tray if the unit is positioned between shelves. Easy maintenance of all the elements of the unit.



4

intarblock PRO CV-NPD

Electrical panel

Electrical panel with front access. All the protection and electronic control elements are integrated. Terminal block for connecting the elements.

6

Through-wall insulation pad

In ceiling-mounted units, 80 mm thick through-wall insulation pad injected in polyurethane foam and covered in aluminium. Manufactured in two parts that allows its opening and quick access to the inside of the evaporator from the roof of the chamber, simply with 3 screws.
Assembly of the ventilation kit (telescopic to adapt to different thicknesses) from inside the chamber, to facilitate the assembly of the unit.

Connectors

All electrical elements use connectors for easy replacement.

2

Washable air filter

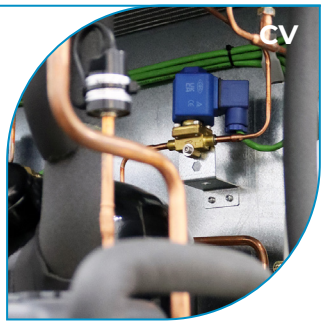
Accessible from the outside to prevent soiling of the condenser and the inside of the unit.

3

Design for and by technicians

Defrost

Hot gas defrost with liquid line shut-off, reducing defrosting time and consequently reducing start-up time and unit consumption.



5

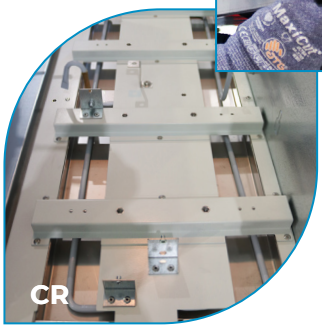
intartop PRO CR-NPD

Drain pan

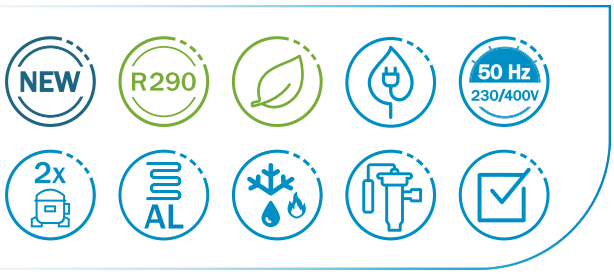
Condensate evaporation drain pan, accessible from the outdoor unit and removable. Built-in stainless steel. Allows cleaning, as well as the evaporation coil. Overflow for evacuation of excess condensate water.

7

8



intarblock PRO



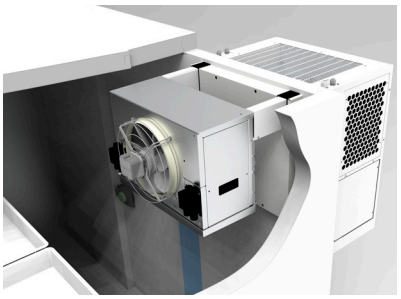
New range of R-290 self-contained slim monoblock designed by and for technicians. For small and medium refrigeration and conservation cold rooms. Units for wall-mount installation.

FEATURES

R-290 refrigerant charge.	■
Refrigeration circuit independent per compressor.	■
Hermetic reciprocating compressors mounted on rails to reduce vibrations.	■
Condensing coil in microchannel with polyester paint treatment.	■
AC evaporator fans, and EC condenser fans.	■
High pressure switch.	■
Removable stainless steel drain pan for cleaning and stainless steel coil.	■
Washable suction screen filtering mesh.	■
Drainage resistance in self-regulating NT models.	■
Wall-mount installation 80-150 mm.	■
Access to electrical panel with hinged register.	■
Hot gas defrosting.	■
Thermostatic expansion valve.	■
Aluminium plates covered with film for protection during transport in evaporator.	■
Multifunction electronic regulation.	■
Cold room LED light.	■
EC radial fan with vertical discharge (only for standard air-condensed units).	□ + 10 %
Bi-temperature adaption.	□ + 10 %
Condensation with water at a temperature between 5 and 50 °C.	□ + 5 %
Condensation with glycol water at a temperature between -10 and 5 °C (only in NT models). Includes automatic pressostatic water valve controlled by condensing pressure, with direct drive.	□ + 9 %
Water solenoid valve for installation outside the unit.	□ + 183 €
Unit adaptation for outdoor installation.	□ + 30 %
Halogen-free supply connection (5 m).	□ + 2 %
Male and female schuko electrical connector base.	□ + 77 €
Low voltage protection (single-phase models).	□ + 189 €
Low voltage and phase sequence protection (three-phase models).	□ + 251 €
Change to 230V 50Hz power supply in three-phase models.	□ + 8 %
Drain resistance (for room temperature < 0 °C in PT models).	□ + 88 €
Master-slave (alternative + simultaneous).	□ + 82 €

■ As standard □ Optional

Installation example



Aluminium cubic evaporator

Aluminium provides better heat transfer than other materials and optimum low temperature operation.

Cubic type evaporators have a greater air range than ceiling type evaporators.

Electronic control

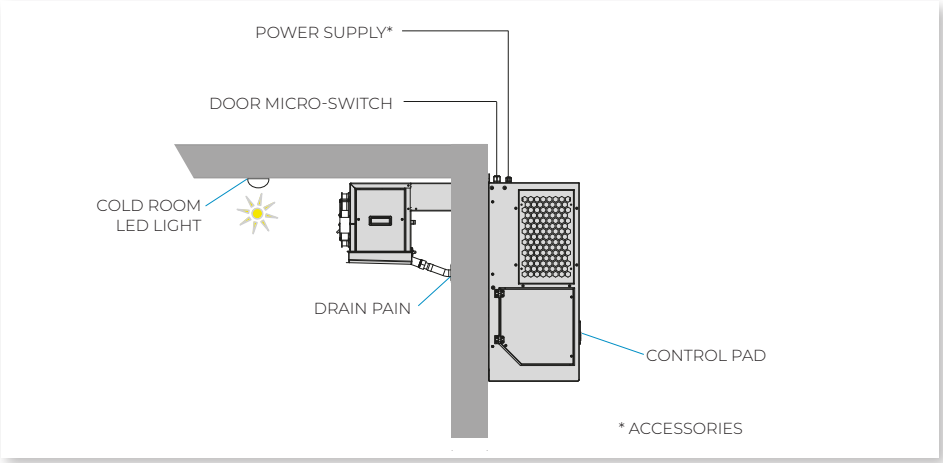
intarblock PRO units incorporates as standard the advanced XM670K electronic control.

- Remote control keyboard with digital display.
- Internal clock for programming of energy saving cycles and defrost.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Accessories CV-NPD units

- Hopper for adaptation to circular duct (+ 127 €).
- Through-wall insulation pad 100 mm (+ 4 %).
- Through-wall insulation pad 150 mm (+ 6 %).
- Non-return damper (+ 69 €).
- Door micro-switch (+ 65 €).
- 5 metres of electrical supply hose (+ 2 %).

Installation scheme



Radial fan (optional)

intarblock units with optional radial fans feature a centrifugal motor fan with Available Static Pressure of 100 Pa, to duct hot condensation airflow outdoors.

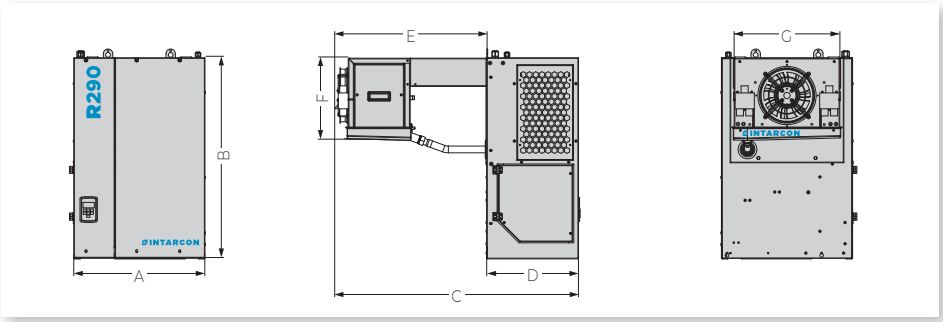
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. air flow [Opt. radial)] (m³/h)	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCV-NPD-1008A	230V I+N ~ 50Hz	1/3	720	5	851	10	995	16	464	4.1	750	1 450	< 150	68	43	2 621
	MCV-NPD-1012A	230V I+N ~ 50Hz	1/2	958	8	1 144	14	1 345	24	635	6.5	750	1 450	< 150	68	43	2 981
	MCV-NPD-1018A	230V I+N ~ 50Hz	3/4	1 220	12	1 447	20	1 688	33	759	5.8	750	1 450	< 150	72	43	3 512
	MCV-NPD-2026A	230V I+N ~ 50Hz	1	1 733	19	2 086	32	2 491	53	1 107	11.2	1 350	1 600	< 150	109	41	4 327
	MCV-NPD-2034A	230V I+N ~ 50Hz	1	2 251	26	2 668	43	3 119	70	1 491	14.8	1 350	1 600	< 150	109	42	4 845
	MCV-NPD-2035A	230V I+N ~ 50Hz	2x 3/4	2 432	29	2 847	47	3 302	75	1 459	11.1	1 350	1 600	< 150	116	41	5 597
	MCV-NPD-3052A	400V 3N ~ 50Hz*	2x 1	3 578	47	4 329	78	5 065	140	2 309	9.3	2 800	3 000	< 150	142	44	6 078
	MCV-NPD-3069A	400V 3N ~ 50Hz*	2x 1	4 505	62	5 329	100	6 180	180	3 091	12.9	2 800	3 000	< 170	142	45	6 740

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. air flow [Opt. radial)] (m³/h)	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCV-NPD-1018A	230V I+N ~ 50Hz	3/4	469	1	584	3	706	5	588	5.8	750	1 450	< 150	72	43	3 620
	BCV-NPD-2026A	230V I+N ~ 50Hz	3/4	703	3	867	6	1 085	11	907	9.6	1 350	1 600	< 150	109	41	3 732
	BCV-NPD-2034A	230V I+N ~ 50Hz	3/4	955	6	1 166	10	1 423	18	1 141	11.5	1 350	1 600	< 150	109	41	4 244
	BCV-NPD-3052A	230V I+N ~ 50Hz	2x 3/4	1 406	12	1 776	21	2 249	36	1 926	18.1	2 800	3 000	< 150	142	44	5 486
	BCV-NPD-3054A	230V I+N ~ 50Hz	1	1 367	11	1 787	21	2 323	38	1 732	18.2	2 800	3 000	< 150	131	45	5 225
	BCV-NPD-3068A	230V I+N ~ 50Hz [c]	1 1/4	1 665	15	2 173	28	2 792	49	2 028	23.9	2 800	3 000	< 150	131	44	5 810
	BCV-NPD-3069A	400V 3N ~ 50Hz*	2x 3/4	1 905	19	2 372	32	2 898	52	2 402	11.9	2 800	3 000	< 150	142	46	5 991

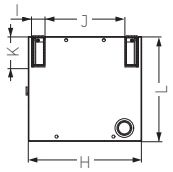
DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G	H	I	J	K	L
1 series	556	853	1 023	390	693	348	468	448	56	341	129	450
2 series	706	853	1 173	455	720	448	618	640	56	491	129	560
3 series	906	853	1 101	455	686	455	878	890	56	761	129	560

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* 230V 50Hz available model.
* Power supply change by demand.

DROP-IN FRAME



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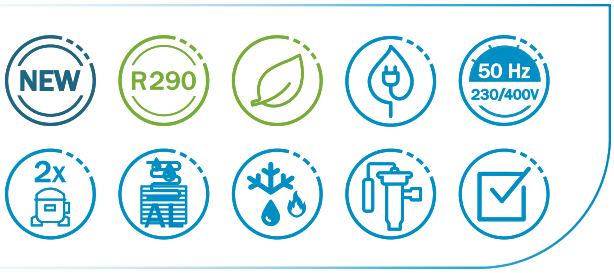
REFRIGERATION CALCULATION SOFTWARE

intartop PRO



New range of R-290 self-contained slim monoblock designed by and for technicians. For small and medium refrigeration and conservation cold rooms. Units for ceiling panel installation.

FEATURES

R-290 refrigerant charge.	●
Refrigeration circuit independent per compressor.	●
Hermetic reciprocating compressors mounted on rails to reduce vibrations.	●
Condensing coil in microchannel with polyester paint treatment.	●
AC evaporator fans, and EC condenser fans.	●
High pressure switch.	●
Removable stainless steel drain pan for cleaning and cooper steel coil with epoxy paint.	●
Washable suction screen filtering mesh.	●
Drainage resistance in NT models.	●
Removable insulation pad with fixed part, for 80 mm pipe and wiring entry.	●
Access to electrical panel with hinged register.	●
Hot gas defrosting.	●
Thermostatic expansion valve.	●
Aluminium plates covered with film for protection during transport in evaporator.	●
Multifunction electronic regulation with remote control and halogen-free supply connection (5 m).	●
Cold room LED light.	●
Radial fan with vertical or horizontal discharge option (only for standard air-condensed units).	○ + 10 %
Bi-temperature adaption.	○ + 10 %
Male and female schuko electrical connector base.	○ + 77 €
Low voltage protection (single-phase models).	○ + 189 €
Low voltage and phase sequence protection (three-phase models).	○ + 251 €
Change to 230V 50Hz power supply in three-phase models.	○ + 8 %
Condensation with water at a temperature between 5 and 50 °C.	○ + 5 %
Condensation with glycol water at a temperature between - 10 and 5 °C (only in NT models). Includes automatic pressostatic water valve controlled by condensing pressure, with direct drive.	○ + 9 %
Drain resistance (for room temperature < 0 °C in PT models).	○ + 88 €
Master-slave (alternative + simultaneous).	○ + 82 €

● As standard ○ Optional

Installation example

Adaptation to different ceiling thicknesses

The new compact commercial for ceiling panel installation units are supplied with a separate evaporator fan box and can be mounted telescopically, thus adapting to ceiling panels from 80 to 150 mm thick.

Electronic control

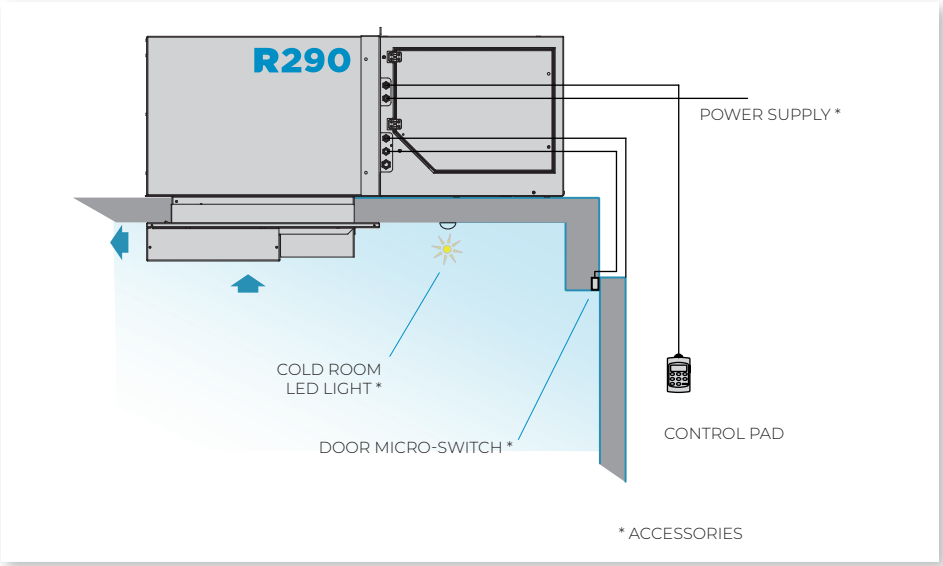
intartop PRO units incorporates as standard the advanced XM670K electronic control.

- Remote control keyboard with digital display.
- Internal clock for programming of energy saving cycles and defrost.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Accessories CR-NPD units

- Hopper for adaptation to circular duct (+ 127 €).
- Air suction kit (+ 120 €).
- Non-return damper (+ 69 €).
- Door micro-switch (+ 65 €).
- 5 metres of electrical supply hose (+ 2 %).

INSTALLATION SCHEME



Radial condensing fan (optional)

Replacement of the standard condensing fan with a horizontal (circular horizontal outlet) / vertical (rectangular vertical outlet) radial fan.

Box for external air inlet conduction (optional)

Box for external air inlet conduction to condenser, with circular horizontal inlet.

Water condensation (optional)

Condensation with water at a temperature between 5 °C / 50 °C or -10 °C / 5 °C (only NT models).

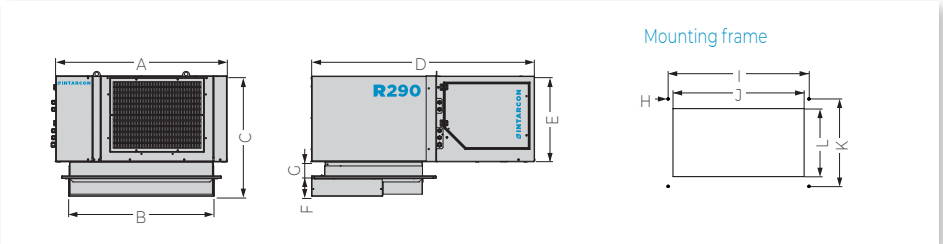
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. air flow [Opt. radial)] (m³/h)	ASP (Pa) [2]	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCR-NPD-1008A	230V I+N ~ 50Hz	1/3	737	6	867	10	1 010	17	471	4,1	950	1 450	100	< 150	82	43	3 006
	MCR-NPD-1012A	230V I+N ~ 50Hz	1/2	1 000	9	1 184	15	1 386	25	646	6,5	950	1 450	100	< 150	82	43	3 201
	MCR-NPD-1018A	230V I+N ~ 50Hz	3/4	1 275	12	1 506	21	1 757	34	773	5,8	950	1 450	100	< 150	86	43	4 405
	MCR-NPD-2026A	230V I+N ~ 50Hz	1	1 794	20	2 149	33	2 560	55	1 149	11,9	1 350	1 600	100	< 150	117	42	5 007
	MCR-NPD-2034A	230V I+N ~ 50Hz	1	2 332	27	2 747	45	3 220	73	1 541	15,5	1 350	1 600	100	< 150	117	42	5 200
	MCR-NPD-2035A	230V I+N ~ 50Hz	2x 3/4	2 516	30	2 932	48	3 386	78	1 508	11,8	1 350	1 600	100	< 150	125	42	5 931
	MCR-NPD-3052A	400V 3N ~ 50Hz*	2x 1	3 485	45	4 207	76	4 949	140	2 294	9,3	2 800	3 000	100	< 150	164	45	6 760
	MCR-NPD-3069A	400V 3N ~ 50Hz*	2x 1	4 360	60	5 177	97	6 045	175	3 058	12,9	2 800	3 000	100	< 160	164	45	7 800

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. air flow [Opt. radial)] (m³/h)	ASP (Pa) [2]	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCR-NPD-1018A	230V I+N ~ 50Hz	3/4	469	1	594	3	725	5	596	5,8	950	1 450	100	< 150	86	43	3 380
	BCR-NPD-2026A	230V I+N ~ 50Hz	3/4	720	3	903	7	1 126	12	950	8,9	1 350	1 600	100	< 150	117	41	4 153
	BCR-NPD-2034A	230V I+N ~ 50Hz	3/4	992	6	1 213	11	1 470	19	1 190	10,8	1 350	1 600	100	< 150	117	41	4 717
	BCR-NPD-3052A	230V I+N ~ 50Hz	2x 1 1/4	1 340	11	1 692	19	2 108	32	1 895	18,3	2 800	3 000	100	< 150	164	44	5 870
	BCR-NPD-3054A	230V I+N ~ 50Hz	1	1 293	10	1 689	19	2 164	34	1 705	18,1	2 800	3 000	100	< 150	150	45	5 590
	BCR-NPD-3068A	230V I+N ~ 50Hz [c]	1 1/4	1 574	14	2 107	27	2 605	44	2 240	23,9	2 800	3 000	100	< 260	150	44	6 975
	BCR-NPD-3069A	400V 3N ~ 50Hz*	2x 1 1/2	1 814	18	2 258	30	2 743	48	2 353	11,9	2 800	3 000	100	< 150	164	46	7 215

DIMENSIONS



Dimensions (mm)	A*	B	C	D*	E	F	G	H	I	J	K	L	Fan outlet (horizontal / vertical)
1 series	695	532	687	1 145	490	117	80 up to 150	4 x Ø 13	580	535	615	503	Ø 300 / 330x250
2 series	995	832	687	1 275	490	117	80 up to 150	4 x Ø 13	880	835	680	568	Ø 300 / 330x250
3 series	1 245	1 082	687	1 275	490	117	80 up to 150	4 x Ø 13	1 130	1 085	680	568	Ø 350 / 430x250

* The width of the unit with optional radial condensing fan will change to: 1 045 mm (CR-1), 1 345 mm (CR-2), 1 595 mm (CR-3), and the sound pressure level will change slightly from the value given for the axial unit. The length of the unit with optional box for external air inlet conduction will change to: 1 310 mm (CR-1) and 1 440 mm (CR-2 /CR-3).

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Available static pressure of condensation.
[3] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[4] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* 230V 50Hz available model.
* Power supply change by demand.

Easy installation

The evaporator is delivered in a separate package from the condensing part, which facilitates the assembly of the unit in the cold room.

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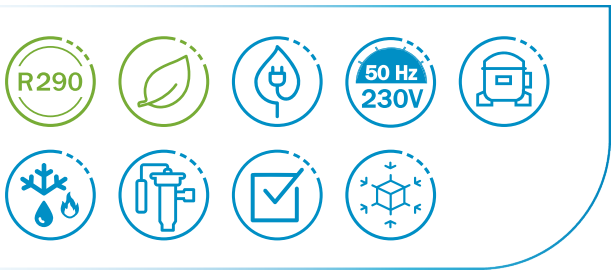


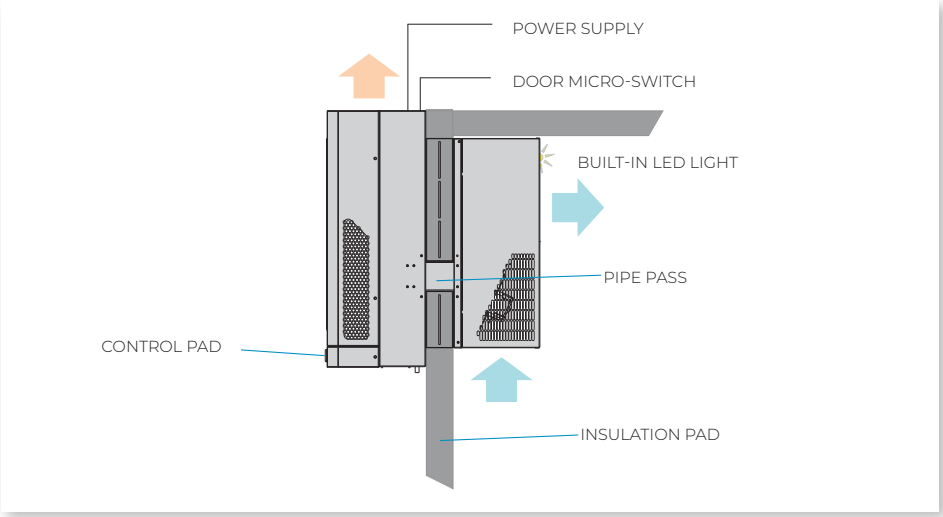
Self-contained slim monoblock units for small cold rooms for refrigeration and freezing, for wall-mount installation.

FEATURES

R-290 refrigerant charge.	■
Hermetic reciprocating compressor.	■
EC motor fans.	■
High and low pressure switches.	■
Thermostatic expansion valve.	■
Hot gas defrost.	■
Stainless steel drain pan.	■
Evaporation of condensed water.	■
Cold room LED light and door micro-switch.	■
Removable through-wall insulation pad included.	■
Multifunction electronic control.	■
Evaporator coil epoxy anti-corrosion treatment.	□ + 6 %
Condenser coil polyurethane anti-corrosion treatment.	□ + 4 %

■ As standard □ Optional

INSTALLATION SCHEME



Installation example

Electronic control

XW60LH electronic control, as standard on our commercial monoblock units, is an advanced small size controller, which includes the following functions:

- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function Jet Cool.
- Night operation mode.
- 4 output relays for: compressor, fan, defrost and light.
- 3 temperature NTC probes for cold room, defrost and condensation.

Built-in cold room LED light

High efficiency cold room LED light, built-in in the unit hat is automatically activated when the cold room door is opened.

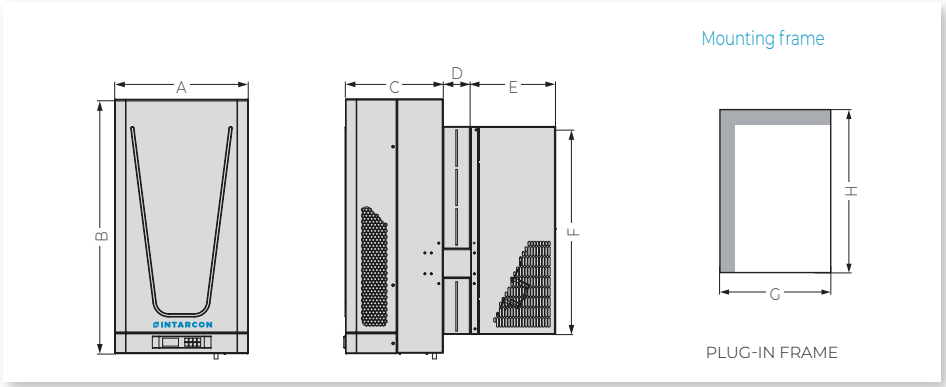
230V I+N ~ 50Hz | Positive temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCV-LD-0009A	230V I+N ~ 50Hz	1/3	635	5	740	7	850	12	400	3,5	300	< 100	38	29	2 193
	MCV-LD-1012A	230V I+N ~ 50Hz	1/2	1 050	9	1 220	15	1 410	27	520	3,3	500	< 150	56	29	2 639
	MCV-LD-1017A	230V I+N ~ 50Hz	3/4	1 340	14	1 560	21	1 780	36	680	4,3	500	< 150	57	31	2 942
	MCV-LD-2026A	230V I+N ~ 50Hz	1	1 824	21	2 170	34	2 540	58	940	5,9	950	< 150	86	35	3 734
	MCV-LD-2034A	230V I+N ~ 50Hz	1	2 215	27	2 618	43	2 960	70	1 310	9,0	950	< 200	86	35	4 680

230V I+N ~ 50Hz | Negative temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCV-LD-0014A	230V I+N ~ 50Hz	3/4	370	1	440	2	520	4	380	3,6	300	< 100	38	29	2 603
	BCV-LD-1017A	230V I+N ~ 50Hz	3/4	540	2	660	5	790	8	480	4,3	500	< 100	57	29	2 892
	BCV-LD-1028A	230V I+N ~ 50Hz	1 1/4	770	4	920	9	1 090	15	730	5,6	500	< 150	64	31	3 184
	BCV-LD-2034A	230V I+N ~ 50Hz	3/4	985	7	1 210	14	1 470	25	970	9,3	950	< 200	86	34	3 417

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G	H
0 series	420	803	237	86	207	596	400	600
1 series	420	803	307	86	270	656	400	660
2 series	620	764	343	106	310	676	600	680

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

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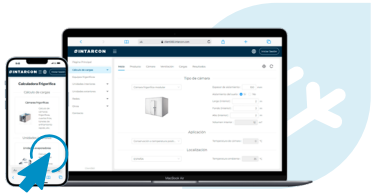

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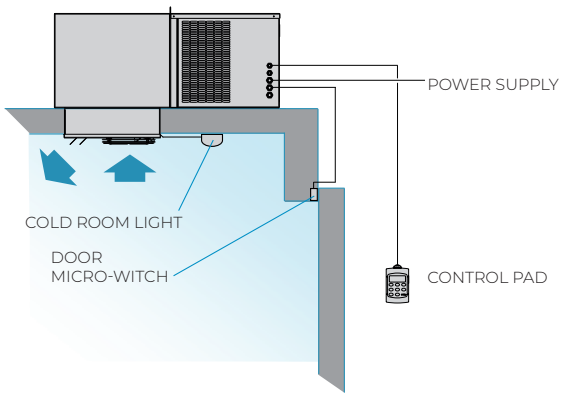
Self-contained slim monoblock units for small cold rooms for refrigeration and freezing, for ceiling panel installation.

FEATURES

R-290 refrigerant charge.	■
Hermetic reciprocating compressor.	■
High and low pressure switch.	■
Thermostatic expansion valve.	■
MCB protection.	■
Hot gas defrost.	■
Stainless steel drain pan.	■
Evaporation of condensed water.	■
Cold room LED light and micro-switch.	■
Evaporator case made in sandwich panel, with 50 mm polyurethane insulation, internally covered in steel sheet.	■
Multifunction electronic control.	■
Evaporator coil epoxy anti-corrosion treatment.	□ + 6 %
Condenser coil polyurethane anti-corrosion treatment.	□ + 4 %

■ As standard □ Optional

INSTALLATION SCHEME



Installation example

Electronic control

XW270K electronic control, as standard on our intartop commercial monoblock units, is an advanced small size controller, which includes the following functions:

- Multi-function remote digital control.
- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function Jet Cool.
- Night operation mode.

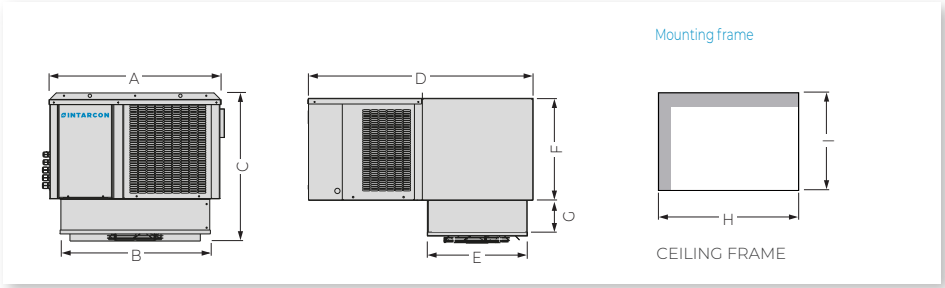
230V I+N ~ 50Hz | Positive temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCR-ND-0009A	230V I+N ~ 50Hz	1/3	670	5	780	7	900	12	390	3,6	300	< 100	63	29	2 310
	MCR-ND-1012A	230V I+N ~ 50Hz	1/2	1 060	9	1 240	15	1 435	27	530	3,4	600	< 100	73	29	2 804
	MCR-ND-1017A	230V I+N ~ 50Hz	3/4	1 370	14	1 585	21	1 815	36	680	4,5	600	< 150	73	31	3 127
	MCR-ND-2026A	230V I+N ~ 50Hz	1	1 850	21	2 200	34	2 577	58	980	5,9	1 150	< 150	96	35	4 175
	MCR-ND-2034A	230V I+N ~ 50Hz	1	2 240	27	2 650	43	2 995	70	1 350	9,0	1 150	< 200	96	35	5 251

230V I+N ~ 50Hz | Negative temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCR-ND-0014A	230V I+N ~ 50Hz	3/4	385	1	460	2	550	4	390	3,3	300	< 100	65	29	2 721
	BCR-ND-1017A	230V I+N ~ 50Hz	3/4	540	2	660	5	800	8	490	3,5	600	< 100	73	29	3 056
	BCR-ND-1028A	230V I+N ~ 50Hz	1 1/4	770	4	925	9	1 100	15	730	6,0	600	< 150	80	31	3 348
	BCR-ND-2034A	230V I+N ~ 50Hz	3/4	985	7	1 215	14	1 475	25	990	9,3	1 150	< 200	96	34	4 112

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G	H	I
0 series	600	430	480	790	375	330	100	435	385
1 series	665	582	574	850	379	385	135	590	385
2 series	835	756	677	850	379	469	135	760	385

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

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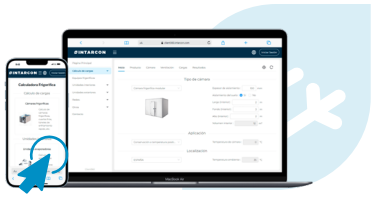
REFRIGERATION CALCULATION SOFTWARE



door intarblock

R290 · 50 Hz 230V

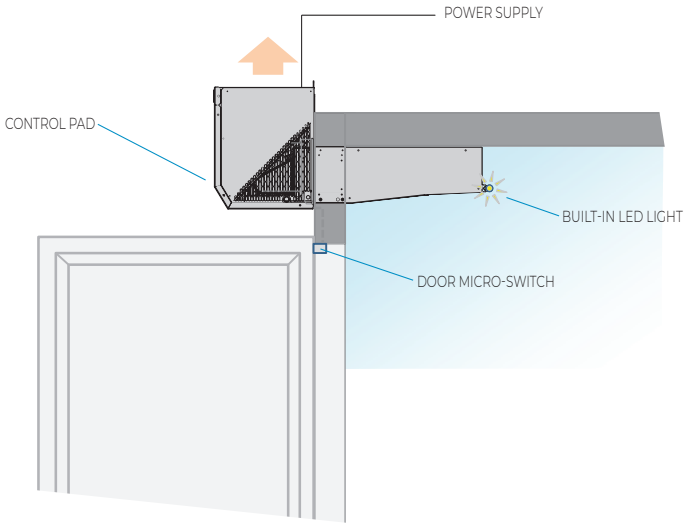
R-290 self-contained slim monoblock units for small cold rooms for refrigeration and freezing, for assembly in the door panel of the cold room.

FEATURES

R-290 refrigerant charge.	■
Hermetic reciprocating compressor.	■
High and low pressure switch.	■
Thermostatic expansion valve.	■
MCB protection.	■
Hot gas defrost.	■
Stainless steel drain pan.	■
Evaporation of condensed water.	■
Cold room LED light and door micro-switch.	■
Multifunction electronic control.	■
Evaporator coil epoxy anti-corrosion treatment.	□ + 6 %
Condenser coil polyurethane anti-corrosion treatment.	□ + 4 %

■ As standard □ Optional

INSTALLATION SCHEME



Installation example

Built-in cold room LED light

High efficiency cold room LED light, built-in in the unit that is automatically activated when the cold room door is opened.

Electronic control

XW60LH, electronic control, as standard on our door intarblock units, is an advanced small size controller, which includes the following functions:

- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function Jet Cool.
- Night operation mode.
- Energy Saving function.
- 4 output relays for: compressor, fan, defrost and light.
- 3 temperature NTC probes for cold room, defrost and condensation.

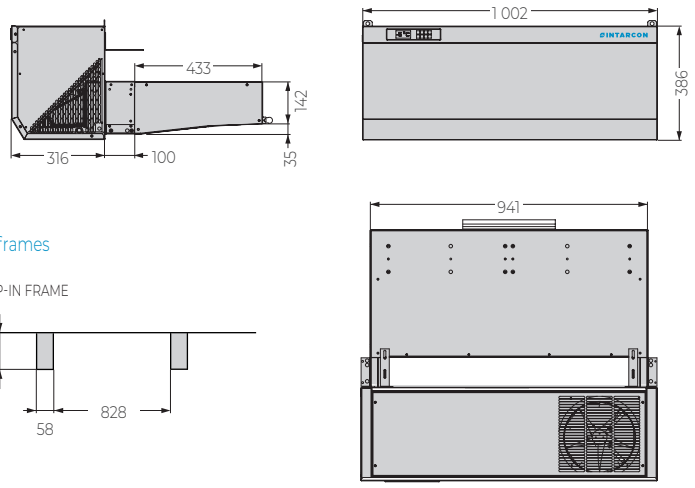
230V I+N ~ 50Hz | Positive temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Refrig. charge (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCP-ND-0009A	230V I+N ~ 50Hz	1/3	640	6	810	8	945	13	340	3,1	275	< 100	61	29	2 351
R-290	MCP-ND-1012A	230V I+N ~ 50Hz	1/2	969	9	1 235	15	1 430	27	520	4,3	550	< 100	67	29	2 847
R-290	MCP-ND-1017A	230V I+N ~ 50Hz	3/4	1 209	14	1 530	20	1 765	35	720	4,5	550	< 100	67	31	3 219

230V I+N ~ 50Hz | Negative temperature | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Refrig. charge (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCP-ND-0014A	230V I+N ~ 50Hz	3/4	420	1	464	2,5	590	5	300	3,3	275	< 100	62	29	2 736
R-290	BCP-ND-1017A	230V I+N ~ 50Hz	3/4	575	2	639	6	825	9	340	4,3	550	< 170	67	29	3 095
R-290	BCP-ND-1028A	230V I+N ~ 50Hz	1 1/4	750	4	833	9	1 070	15	640	6,0	550	< 150	74	31	3 493

DIMENSIONS



Dimensions in mm.

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).

[2] A3 refrigerant charge below 500 g, simplified compliance with EN378.

[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

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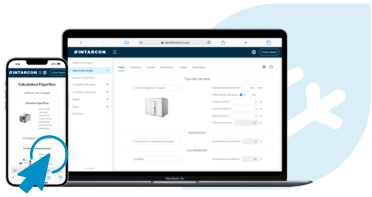


Success story: Hospital San Juan de Dios (Seville, Spain)

Refrigeration requirement

Refrigeration of medium and low temperature cold rooms for foodstuffs in the hospital kitchen.

Proposed solution

- PRO propane compacts in vertical construction model BCV-NPD-2034A with optional vertically driven radial condensation fan for condensation air extraction to the outside for the low temperature chamber operating at -20 °C with a cooling capacity of 1 174 W.
- MCR-ND-1017A ceiling-mounted propane compact for the preservation chamber, operating at 1370 W with a temperature of 0 °C.

Benefits compared to other solutions

- Minimal refrigerant charge in the refrigeration circuit of less than 150 g. A highly efficient solution that complies with current standards.
- Ease of maintenance has been prioritised through excellent accessibility to the electrical panel and the use of quick connectors, allowing quick and safe replacement of electrical and electronic components.
- The compact vertical PRO model includes a cubic evaporator with removable register, making inspection, cleaning and maintenance significantly easier.
- The system features a finished mounting design, which allows convenient access to the evaporator coil, ensuring efficient maintenance and prolonging the life of the equipment.

BCV-NPD-2034A

MCR-ND-1017A

INTARCON

Indirect condensation system by waterloop

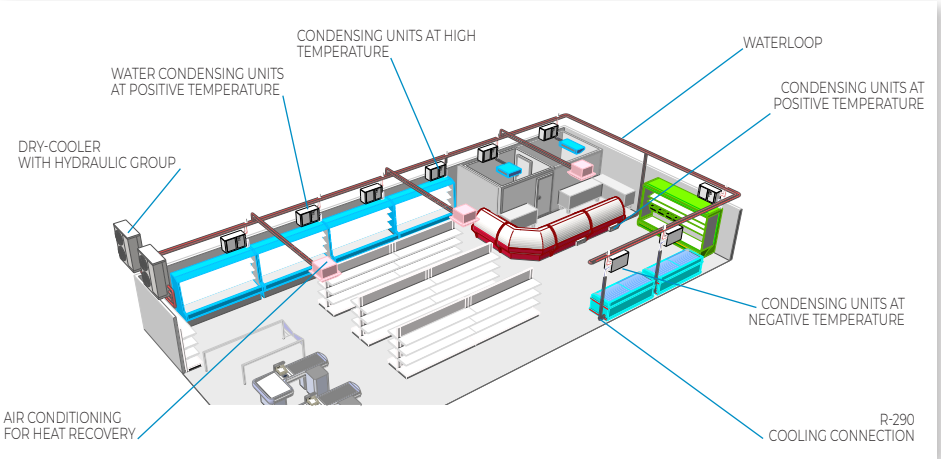
Waterloop system R290

Waterloop system

Waterloop is a commercial refrigeration system, consisting of: DX cooling units distributed, with indirect condensation by a water circuit; and one or more units in parallel air-cooler connected to the condensation heat dissipation.

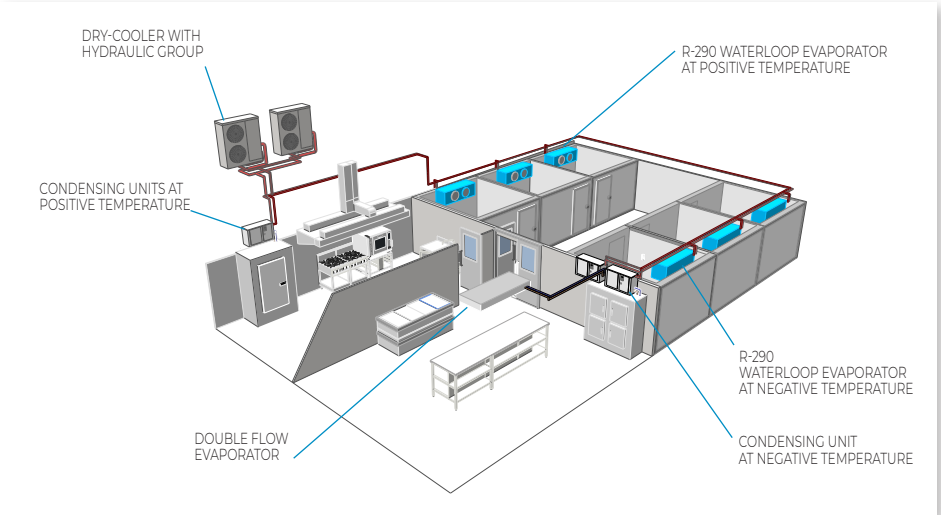
SUPERMARKETS AND FOOD STORES APPLICATIONS

Waterloop system allows distributed cooling production at different temperatures, with a single condensing water loop. Condensation heat recovery from the cooling units can easily be carried out in air conditioners or fan coils.



APPLICATION IN INDUSTRIAL KITCHENS

Waterloop system makes possible to centralise a set of cold rooms and process rooms. The use of compact R-290 waterloop units in cold rooms and process rooms is a 100 % ecological solution free of greenhouse gases.



Ecology

Distributed cooling production allows to reduce and fractionate the charge of HFC refrigerant in the installation, so that the risk of leakage is reduced

Safety

Decentralization of the cooling production contributes a greater operation security of the installation, that guarantees a high availability of the system when faced with the isolated failure of a single unit.

The installation of a double air-cooler or dry-cooler in parallel, provides a greater operational security.

The condensation water loop contains only closed-circuit water working at low hydraulic pressure.

Simple installation

Waterloop system is very easy to install, thanks to its condensed water units pre-charged with refrigerant, and air-coolers or dry-coolers with inbuilt hydraulic unit/circuit.

Precision

Distributed cooling production allows adaptation of working temperatures to the needs of each service, thus obtaining an adequate degree of humidity for the best preservation of each product, and optimizing the performance of the systems.

Energy saving

Condensing units incorporate high-efficiency scroll compressors with R-290 refrigerant for positive temperature and negative temperature.

Air-coolers or dry-coolers incorporate hydraulic group with electronic pump of variable flow, that adapts its functioning speed to the demand of the installation.

Motor fans are equipped with speed regulators to reduce their consumption in low ambient temperatures or low charge.

Versatility

Waterloop system is applicable both in new installations and in existing centralized direct expansion facilities, where the update of refrigeration installation is desired. In fact, existing refrigerating displays are usable and easily converted to new refrigerants.

Flexible installation

The waterloop system is easily adaptable to changes in service layout. The condensing waterloop is normally built-in PVC or PPR pipe allowing it to be easily modified and extended.

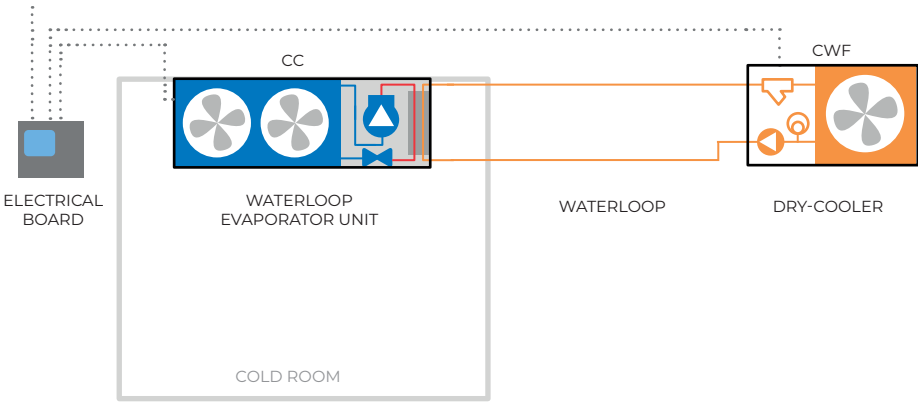
Tropicalised design

Unlike other systems on the market, the waterloop system is designed to work properly even with extreme ambient temperatures of up to 45 °C, with condensation water temperatures of up to 55 °C.

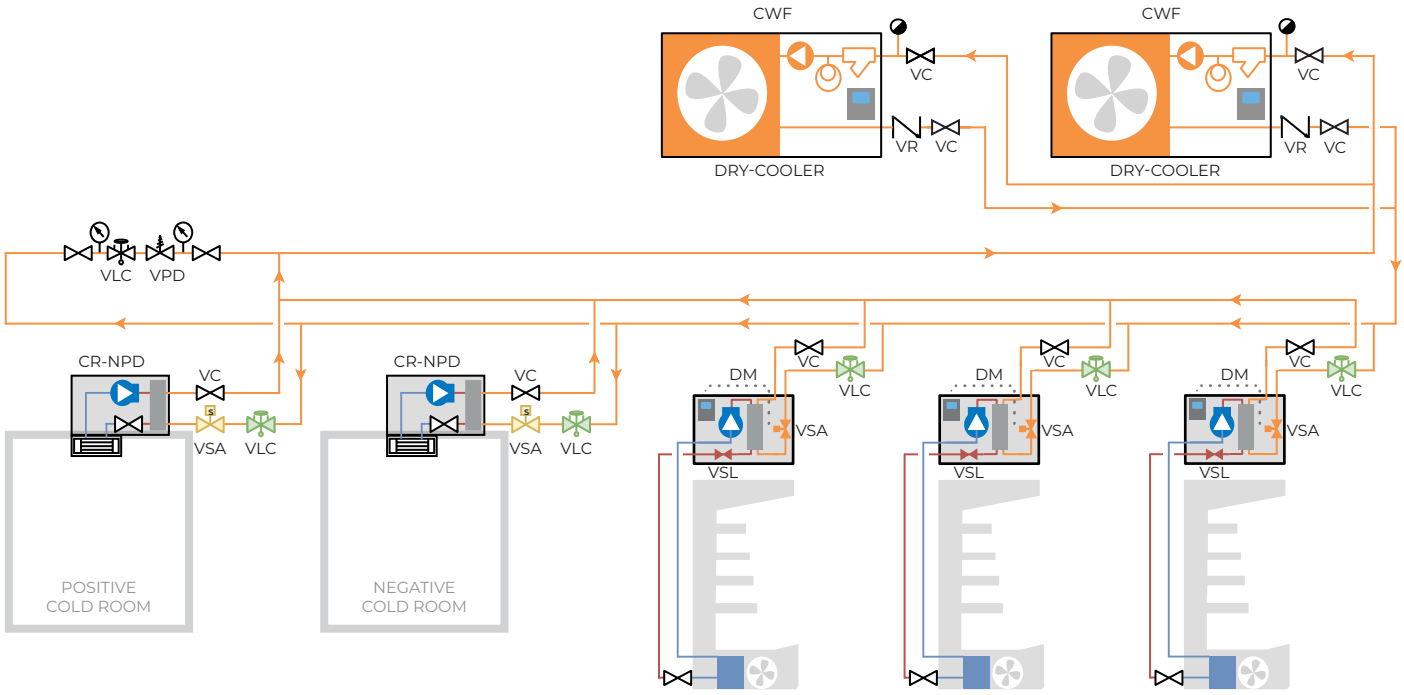
WATERLOOP INSTALLATION SCHEME PRINCIPLE

Waterloop system allows different configurations from a simple cold room up to a set of rooms and other refrigeration services at different temperatures.

Example of 1 +1 simple installation of a R-290 waterloop system.



Example of installation of a R-290 waterloop system, where there are different refrigeration units distributed, in addition to storage cold rooms in PT and freezing cold rooms in NT, and 1 or several air-cooling units on the roof for condensation heat evacuation. Hydraulic circuit with reverse return.

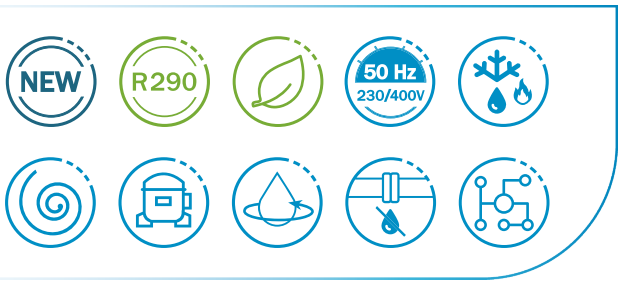


NOTE: We recommend the installation of automatic air vents at the highest points of the installation and air traps and drain valves at the lowest points.

VSA:	WATER SOLENOID VALVE
VC:	SHUT-OFF VALVE
VPD:	DIFFERENTIAL PRESSURE VALVE
VLC:	FLOW RESTRICTOR VALVE
VR:	NON-RETURN VALVE
VSL:	LIQUID SOLENOID VALVE

	OUTWARD CIRCUIT
	RETURN CIRCUIT
	MANOMETER
	AUTOMATIC BLEEDER
	THERMOMETER

R-290 water-cooled condensing units



Water-cooled condensing units for positive and negative temperature refrigeration with very compact size and quiet operation, designed for on-wall or on refrigerated service.

WHAT'S NEW

Removable front register

Front access panel for access to the main components of the unit: compressor, boiler, valves and starter kit.

Independent access to the electrical panel

Electrical panel with front access. All the protection and electronic control elements are integrated. Connection terminal block.

DM-ND/SD

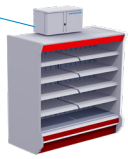
3

Connections on the right outside

Welded connections for liquid line, suction and defrost (optional). Threaded connections for hydraulic circuit. Safety valve line.

Installation example

INSTALLED ON THE FURNITURE



ANCHORED AT THE WALL

Electronic control (optional)

DM-ND/SD units can feature XM670K electronic control.

- Remote control keyboard with digital display.
- Internal clock for programming energy saving cycles and defrosting.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

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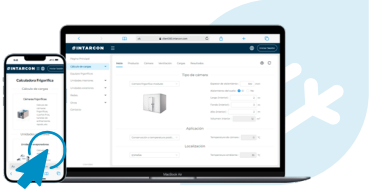


FEATURES

Unit supplied without refrigerant charge.	■
Acoustically insulated scroll compressor, mounted on shock absorbers.	■
Casing in pre-painted galvanized steel sheet, with noise insulation, with removable front panel for access to the compressor and the electrical panel.	■
Stainless steel brazed plates heat exchanger. Cooling circuit with liquid receiver, filter, sight glass, high and low pressure switches, and valves to be welded. Safety valve led to the outside.	■
Hydraulic condensation circuit made of copper pipe with threaded connections.	■
Electromechanic control panel with thermomagnetic protection.	■
Hot gas defrosting.	□ + 450 €
Electrical defrosting.	□ + 0 €
Condensation water temperature 5 °C / -10 °C.	□ + 775 €
Built-in water solenoid valve.	□ + 183 €
Built-in liquid solenoid valve with body and coil.	□ + 183 €
Built-in thermostatic expansion valve.	□ + 100 €
Crankcase heater.	□ + 77 €
Low voltage protection (single-phase models).	□ + 189 €
Low voltage and phase sequence protection (three-phase models).	□ + 251 €

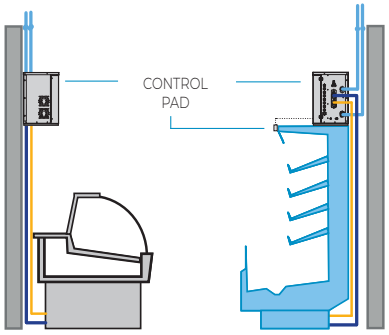
■ As standard □ Optional

Accessories DM-ND/SD units

- Water solenoid valve supplied separately (+ 183 €).
- Balance and control valve supplied separately (by demand).
- Door micro-switch (+ 65 €).
- Cold room LED light (+ 40 €).

Installation scheme

Waterloop series motor condensers can be installed on the furniture or anchored at the wall.



230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic or scroll compressor | R-290

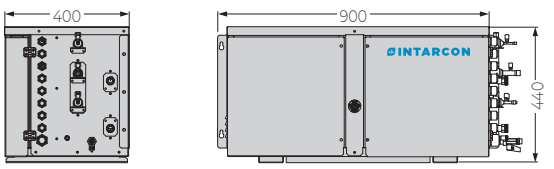
Refrigerant	Compressor	Series / Model	Power supply	Compressor (CV)	Cooling capacity (W) [1] Evaporation temperature -10 °C	-5 °C	0 °C	Input power (W)	Max. current (A)	Conden. air flow (litre/hour)	Liq-Gas cooling connection	Hydraulic connection	Pressure drop (kPa) [2]	Refrig. charge (g) [3]	Weight (kg)	SPL dB(A) [4]	Price (€)
R-290	Hermetic	**MDM-ND-0006A**	230V I+N ~ 50Hz	1/4	**399**	482	583	250	5,2	115	3/16" - 3/8"	1/2"	2,1	< 500	66	21	**1 973**
		MDM-ND-0008A	230V I+N ~ 50Hz	1/3	**575**	674	799	304	5,8	155	3/16" - 3/8"	1/2"	2,7	< 500	66	25	**2 007**
		MDM-ND-0015A	230V I+N ~ 50Hz	1/2	**907**	1 050	1 262	496	6,0	240	1/4" - 1/2"	3/4"	2,7	< 500	72	20	**2 233**
		MDM-ND-0018A	230V I+N ~ 50Hz	3/4	**1 126**	1 326	1 582	624	6,6	300	1/4" - 1/2"	3/4"	3,4	< 500	73	20	**2 533**
		MDM-ND-0034A	230V I+N ~ 50Hz	1	**1 962**	2 404	2 985	1 273	12,9	555	1/4" - 5/8"	3/4"	3,1	< 500	80	36	**2 918**
	Scroll	**MDM-SD-1012A**	400V 3N ~ 50Hz	2	**2 729**	3 266	3 906	1 347	6,4	700	3/8" - 7/8"	3/4"	8,1	< 500	91	38	**4 800**
		MDM-SD-1017A	400V 3N ~ 50Hz	2 1/2	**3 805**	4 483	5 366	1 798	7,4	960	3/8" - 7/8"	1"	5,9	< 500	94	38	**5 010**

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic or scroll compressor | R-290

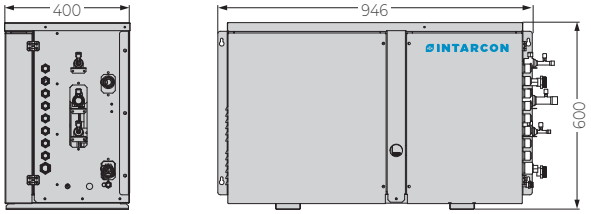
Refrigerant	Compressor	Series / Model	Power supply	Compressor (CV)	Cooling capacity (W) [1] Evaporation temperature -35 °C	-30 °C	-25 °C	-20 °C	Input power (W)	Max. current (A)	Conden. air flow (litre/hour)	Liq-Gas cooling connection	Hydraulic connection	Pressure drop (kPa) [2]	Refrig. charge (g) [3]	Weight (kg)	SPL dB(A) [4]	Price (€)
R-290	Herm.	**BDM-ND-0020A**	230V I+N ~ 50Hz	3/4	379	**492**	590	722	464	7,1	165	3/16" - 1/2"	1/2"	3,6	< 500	70	21	**2 172**
		BDM-ND-0034A	230V I+N ~ 50Hz	3/4	576	**853**	1 078	1 360	843	10,5	295	1/4" - 5/8"	3/4"	1,3	< 500	78	28	**2 641**
	Scroll	**BDM-SD-1017A**	400V 3N ~ 50Hz	2 1/2	1 177	**1 554**	1 912	2 398	1 515	7,4	525	1/4" - 7/8"	3/4"	6,5	< 500	94	38	**4 902**
		BDM-SD-1025A	400V 3N ~ 50Hz	4	1 600	**2 222**	2 786	3 513	2 360	9,4	785	3/8" - 7/8"	3/4"	6,4	< 500	106	42	**6 148**
		BDM-SD-1037A	400V 3N ~ 50Hz	6	2 313	**3 182**	3 988	5 033	3 498	12,0	1 145	3/8" - 1 1/8"	1"	8,0	< 500	108	44	**6 647**

DIMENSIONS

0 series



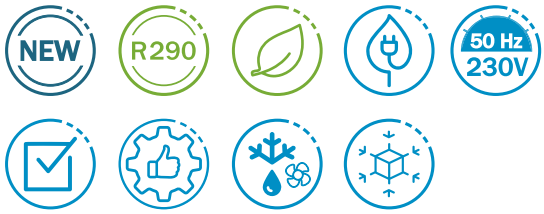
1 series



Dimensions in mm.

[1] Cooling capacity at nominal performances refer to operation at evaporation temperature -10 °C (PT) and -30 °C (NT),water temperature of 40 °C, super-heating 6 K and 5 K sub-cooling.
[2] Condenser pressure drop in the water circuit.
[3] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[4] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

R-290 slim-type evaporating units



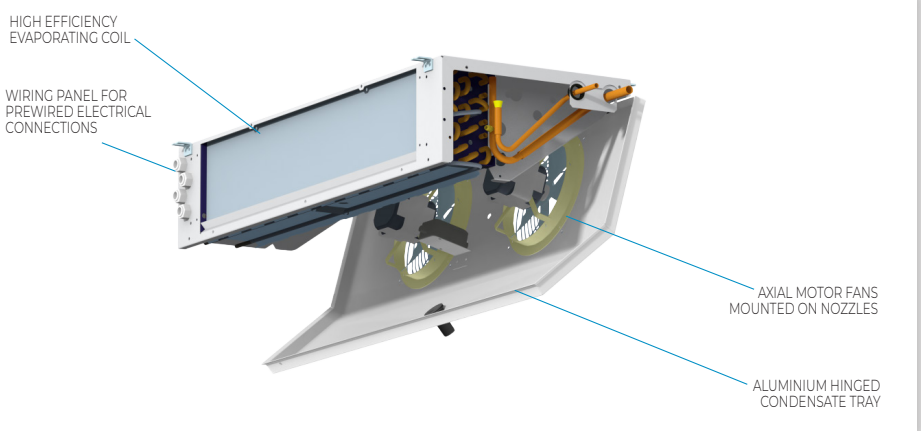
R-290 slim-type evaporating units, built in aluminium structure and casing with polyester paint, for small cold rooms.

FEATURES

High-flow axial motor fans.	■
Air-cooled high efficiency coils, built in copper pipes and aluminium fins, with 6 mm fin spacing.	■
Ready-to-solder cooling connections, with built-in suction trap.	■
Aluminium hinged condensate tray.	■
Flexible drainage resistance (only for negative temperature models).	■
Air defrost.	■
Hot gas defrosting.	□ + 5 %
EC electronic fans.	□ + 25 %
Anti-corrosion coil coating.	□ + 15 %

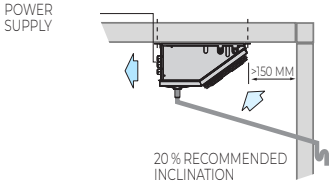
■ As standard □ Optional

COOLING DETAIL

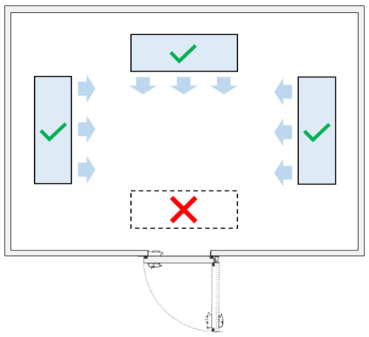


Installation example

Installation recommendations



Place the unit at the end of the cold room, and avoid placing it above the door. It is preferable to place the unit so the air flows lengthwise along the cold room and crosswise to the entrance door.

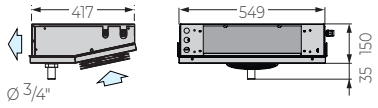


230V I+N ~ 50Hz | Positive temperature | Negative temperature | R-290

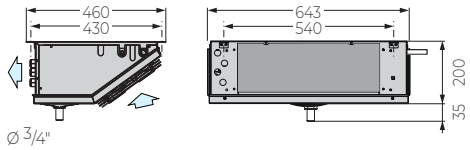
Refrigerant	Application	Series / Model	Power supply	Cooling capacity (W) [1] cold room temperature				Coil			Fans					Liq-Gas cooling connection	Weight (kg)	Price (€)
				SC1 10 °C 85 % HR DT1 = 10 K	SC2 0°C 85 % HR DT1 = 8 K	SC3 -18 °C 95 % HR DT1 = 7 K	SC4 -25 °C 95 % HR DT1 = 6 K	Fin spacing (mm)	Area (m^2)	Vol. (litre)	Air flow (m^3/h)	Nx Ø (mm)	Power (W)	I max. (A)	Air range (m)			
R-290	Positive / Negative	**MJB-ND-0117A** **BJB-ND-0117A**	230V I+N ~ 50Hz	780	**520**	**370**	300	6	2,10	0,34	330	1x ø 172	62	0,3	3	1/4"-3/8"	11	**662**
		MJB-ND-1120A **BJB-ND-1120A**	230V I+N ~ 50Hz	1 290	**850**	**630**	490	6	3,58	0,57	500	1x ø 200	70	0,3	4	1/4"-3/8"	12	**896**
		MJB-ND-2220A **BJB-ND-2220A**	230V I+N ~ 50Hz	2 410	**1 580**	**1 150**	920	6	6,37	1,01	950	2x ø 200	140	0,5	4	1/4"-1/2"	18	**1 145**
		MJB-ND-3325A **BJB-ND-3325A**	230V I+N ~ 50Hz	4 010	**2 630**	**1 950**	1 530	6	11,94	1,9	1 450	3x ø 254	210	1,4	6	1/4"-5/8"	33	**1 493**

DIMENSIONS

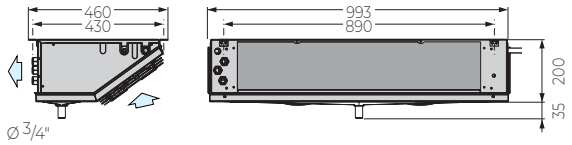
0 series



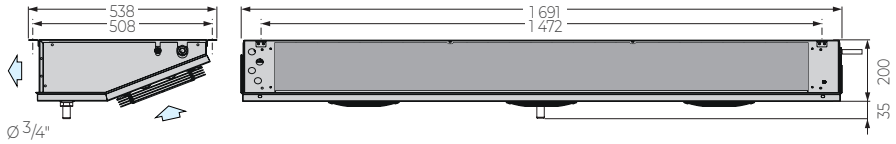
1 series



2 series



3 series



Dimensions in mm.

[1] Cooling capacity at room temperature and relative humidity, calculated from dry cooling capacity according to EN 328 standard, applying the following empirical factors:

Conditions	Reference	Rate
10 °C 85 % HR	EN 328	1.35
0°C 85 % HR	EN 328	1.15
-18 °C 95 % HR	EN 328	1.05
-25 °C 95 % HR	EN 328	1.00

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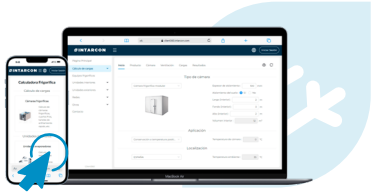
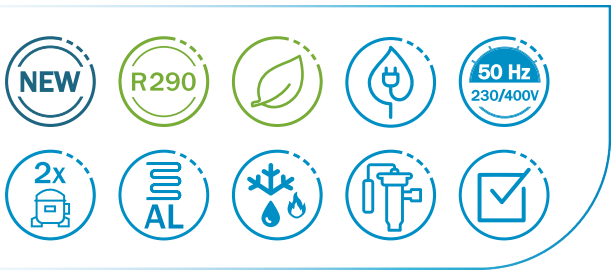
REFRIGERATION CALCULATION SOFTWARE



intarblock PRO Water-cooled



New range of R-290 self-contained slim monoblock designed by and for technicians. Water-cooled. For small and medium refrigeration and conservation cold rooms. Units for wall-mount installation.

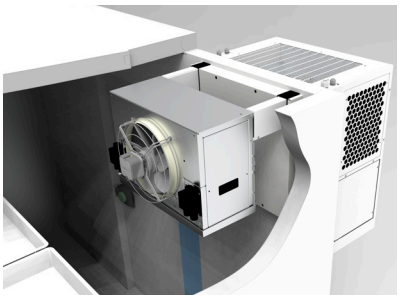
FEATURES

Condensation with water at a temperature between 5 and 50 °C.	
Condensation with glycol water at a temperature between -10 and 5 °C (only in NT models). Includes automatic pressostatic water valve controlled by condensing pressure, with direct drive.	+ 9 % Over standard PVP (page 17).
Water solenoid valve for installation outside the unit.	+ 183 €

Optional

*See page 16 and 17 for features, options, accessories and dimensions.

Installation example



230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature - Water cooled | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. flow (l/h)	Hydraulic connection	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCV-NPD-1008A	230V I+N ~ 50Hz	1/3	648	5	767	8	904	14	400	3.4	750	178	1/2"	< 150	77	25	2 752,05
	MCV-NPD-1012A	230V I+N ~ 50Hz	1/2	895	8	1 073	13	1 267	23	580	5.8	750	256	3/4"	< 150	77	31	3 130,05
	MCV-NPD-1018A	230V I+N ~ 50Hz	3/4	1 134	11	1 369	18	1 616	31	700	5.1	750	322	3/4"	< 150	81	22	3 687,60
	MCV-NPD-2026A	230V I+N ~ 50Hz	1	1 377	14	1 757	25	2 254	47	1 040	9.8	1 350	425	3/4"	< 150	112	30	4 543,35
	MCV-NPD-2034A	230V I+N ~ 50Hz	1	2 118	24	2 599	42	3 089	69	1 400	13.4	1 350	627	3/4"	< 150	112	34	5 087,25
	MCV-NPD-2035A	230V I+N ~ 50Hz	2x 3/4	2 357	28	2 793	46	3 272	74	1 350	6.7	1 350	662	3/4"	< 150	120	25	5 876,85
	MCV-NPD-3052A	400V 3N ~ 50Hz*	2x 1	2 805	47	3 573	62	4 457	120	2 170	9.3	2 800	860	3/4"	< 150	159	33	6 381,90
	MCV-NPD-3069A	400V 3N ~ 50Hz*	2x 1	4 267	62	5 161	97	6 141	180	2 890	12.9	2 800	1 260	1"	< 150	159	37	7 077,00

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature - Water cooler | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. flow (l/h)	Hydraulic connection	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCV-NPD-1018A	230V I+N ~ 50Hz	3/4	393	1	502	2	626	4	53	5.1	750	147	1/2"	< 150	81	22	3 801,00
	BCV-NPD-2026A	230V I+N ~ 50Hz	3/4	595	2	749	5	955	9	810	7.5	1 350	229	3/4"	< 150	112	27	3 918,60
	BCV-NPD-2034A	230V I+N ~ 50Hz	3/4	817	4	1 028	8	1 280	15	1 050	9.4	1 350	308	3/4"	< 150	112	28	4 456,20
	BCV-NPD-3052A	230V I+N ~ 50Hz	2x 3/4	1 183	9	1 536	16	1 984	30	1 710	15.3	2 800	452	3/4"	< 150	159	30	5 760,30
	BCV-NPD-3054A	230V I+N ~ 50Hz	1	1 130	8	1 495	16	2 012	30	1 490	15.5	2 800	408	3/4"	< 150	145	38	5 486,25
	BCV-NPD-3068A	230V I+N ~ 50Hz [c]	1 1/4	1 419	12	1 864	22	2 468	41	1 970	9.1	2 800	539	3/4"	< 150	145	40	6 100,50
	BCV-NPD-3069A	400V 3N ~ 50Hz*	2x 3/4	1 641	15	2 092	27	2 622	45	2 220	8.9	2 800	615	3/4"	< 150	159	30	6 290,55

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), with inlet/outlet water temperature of 40/45 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* 230V 50Hz available model.
[c] Power supply change by demand.

PVP water condensed: 5% on standard air condensed price. See page 17.
Consult cooling capacities before ordering.

intartop PRO Water-cooled

New range of R-290 self-contained slim monoblock designed by and for technicians. For small and medium refrigeration and conservation cold rooms. Units for ceiling panel installation.

Installation example

FEATURES

Condensation with water at a temperature between 5 and 50 °C.	▱
Condensation with glycol water at a temperature between -10 and 5 °C (only in NT models). Includes automatic pressostatic water valve controlled by condensing pressure, with direct drive.	▱ + 9 % Over standard PVP (page 19).
Water solenoid valve for installation outside the unit.	▱ + 183 €

▱ Optional

*See page 18 and 19 for features, options, accessories and dimensions.

230V 1+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature - Water cooled | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. flow (l/h)	Hydraulic connection	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	MCR-NPD-1008A	230V 1+N ~ 50Hz	1/3	657	6	776	10	917	17	471	3.4	950	171	1/2"	< 150	77	25	3 156,30
	MCR-NPD-1012A	230V 1+N ~ 50Hz	1/2	964	9	1 140	15	1 339	25	646	5.8	950	254	3/4"	< 150	77	31	3 361,05
	MCR-NPD-1018A	230V 1+N ~ 50Hz	3/4	1 132	12	1 405	21	1 665	34	773	5.1	950	305	3/4"	< 150	81	22	4 625,25
	MCR-NPD-2026A	230V 1+N ~ 50Hz	1	1 712	20	2 042	33	2 560	55	1 149	10.5	1 350	457	3/4"	< 150	112	30	5 257,35
	MCR-NPD-2034A	230V 1+N ~ 50Hz	1	2 207	27	2 690	45	3 264	73	1 541	14.1	1 350	609	3/4"	< 150	112	34	5 460,00
	MCR-NPD-2035A	230V 1+N ~ 50Hz	2x 3/4	2 426	30	2 878	48	3 426	78	1 508	10.4	1 350	639	3/4"	< 150	120	25	6 227,55
	MCR-NPD-3052A	400V 3N ~50Hz*	2x 1	3 485	45	4 060	76	4 940	140	2 294	9.3	2 800	894	3/4"	< 150	159	33	7 098,00
	MCR-NPD-3069A	400V 3N ~50Hz	2x 1	4 360	60	5 128	97	6 244	175	3 058	12.9	2 800	1 179	1"	< 150	159	37	8 190,00

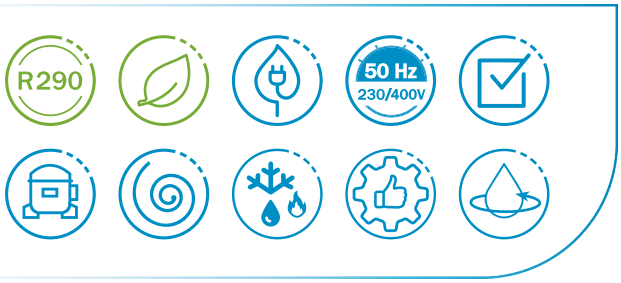
230V 1+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature - Water cooler | Hermetic compressor | R-290

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. flow (l/h)	Hydraulic connection	Refrigerant charge per circuit (g) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-290	BCR-NPD-1018A	230V 1+N ~ 50Hz	3/4	426	1	511	2	664	5	505	5.1	950	169	1/2"	< 150	81	22	3 549,00
	BCR-NPD-2026A	230V 1+N ~ 50Hz	3/4	622	2	794	5	990	10	781	8.2	1 350	262	3/4"	< 150	112	27	4 360,65
	BCR-NPD-2034A	230V 1+N ~ 50Hz	3/4	848	5	1 078	9	1 322	16	970	10.1	1 350	355	3/4"	< 150	112	28	4 952,85
	BCR-NPD-3052A	230V 1+N ~ 50Hz	2x 1 1/4	1 228	9	1 580	17	1 940	29	1 554	15.3	2 800	521	3/4"	< 150	159	30	6 163,50
	BCR-NPD-3054A	230V 1+N ~ 50Hz	1	1 117	8	1 491	15	1 923	28	1 367	15.5	2 800	460	3/4"	< 150	145	38	5 869,50
	BCR-NPD-3068A	230V 1+N ~ 50Hz [c]	1 1/4	1 460	12	1 942	24	2 440	40	1 673	9.1	2 800	617	3/4"	< 150	145	40	7 323,75
	BCR-NPD-3069A	400V 3N ~ 50Hz*	2x 1 1/2	1 634	15	2 078	26	2 544	43	1 972	8.9	2 800	691	3/4"	<150	159	30	7 575,75

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), with inlet/outlet water temperature of 40/45 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] A3 refrigerant charge below 500 g, simplified compliance with EN378.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* 230V 50Hz available model.
[c] Power supply change by demand..

PVP water condensed: 5% on standard air condensed price. See page 19.
Consult cooling capacities before ordering.

R-290 evaporator with built-in compressor



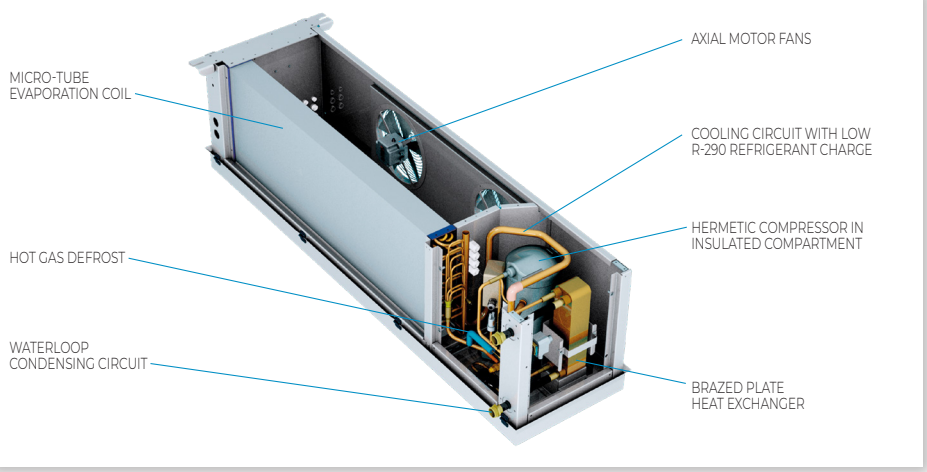
Waterloop evaporator units with compressor are compact units for installation inside small coldrooms, designed with natural refrigerant R-290 and waterloop condensed.

FEATURES

R-290 refrigerant charge.	■
Bodywork in aluminium sheet and structure in galvanised steel lacquered in polyester paint.	■
Alternative hermetic or scroll compressor integrated in thermally insulated compartment, with crankcase heater.	■
Refrigeration circuit in annealed copper tube, with high and low pressure switches, filter drier and charge valve.	■
Evaporation coil in copper pipes and aluminium fins, thermostatic expansion valve and hot gas defrost.	■
Axial motor fans.	■
Stainless steel brazed plates heat exchanger.	■
Threaded hydraulic connections.	■
Control panel in white lacquered sheet metal cabinet, with MCB protection and multifunction electronic control. RS485 Modbus communication connector. Interconnection cables (3 m).	■
Water solenoid valve for multi-equipment waterloop installation (without assembly).	■
Evaporator coil epoxy anti-corrosion treatment	□ + 6 %

■ As standard □ Optional

COOLING DETAIL



Installation example

Compact R-290 system

The waterloop evaporator units are hermetically sealed compact systems with a minimum charge of R-290.

They have a minimum R-290 refrigerant charge lower than the practical limit of the refrigerated volume.

Electrical board

Electrical power and control board for outside installation.

- MCB protection of compressor and manoeuvre
- Temperature control with maximum and minimum temperature value recording
- Quick cooling function Jet Cool.
- Energy saving function
- Optional air condenser management with waterloop temperature control and frost protection.

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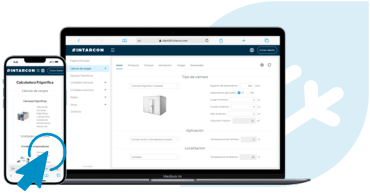
REFRIGERATION CALCULATION SOFTWARE



230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic or scroll compressor | R-290

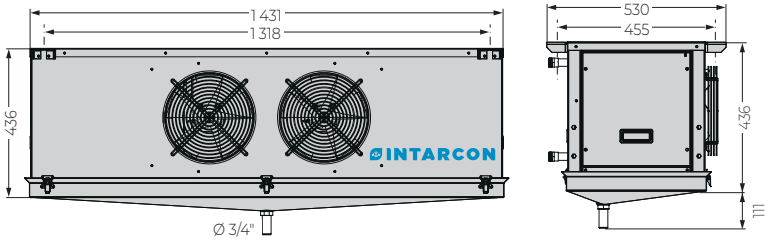
Refrigerant	Compressor	Series / Model	Power supply	Compressor (HP)	Cooling capacity (W) [1] Cold room temperature 0 °C	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. water flow (litre/hour)	Pressure drop (kPa) [2]	Hydraulic connection	Refrig. charge (g)	Weight (kg)	Price (€)
R-290	Herm.	MCC-ND-1017A	230V I+N ~ 50Hz	3/4	1 430	572	7,7	1 600	350	3	3/4"	210	50	4 333
		MCC-ND-1034A	230V I+N ~ 50Hz	1 1/2	2 640	1 060	16,4	1 600	650	3	3/4"	170	59	4 847
	Scroll	MCC-SD-1012A	400V 3N ~ 50Hz	1 1/2	3 410	860	7,7	1 600	750	5	3/4"	265	62	6 324
		MCC-SD-2017A	400V 3N ~ 50Hz	2	3 930	1 070	9,0	1 700	875	5	1"	240	72	7 477
		MCC-SD-2020A	400V 3N ~ 50Hz	3 1/2	5 172	1 510	10,7	2 400	1 175	5	1"	280	72	7 667

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic or scroll compressor | R-290

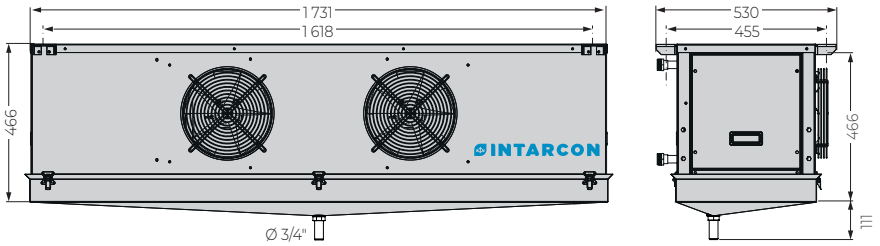
Refrigerant	Compressor	Series / Model	Power supply	Compressor (HP)	Cooling capacity (W) [1] Cold room temperature -20 °C	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Conden. water flow (litre/hour)	Pressure drop (kPa) [2]	Hydraulic connection	Refrig. charge (g)	Weight (kg)	Price (€)
R-290	H.	BCC-ND-1034A	230V I+N ~ 50Hz	1	847	800	11,0	1 600	300	3	3/4"	150	59	4 813
	Scroll	BCC-SD-1012A	400V 3N ~ 50Hz	1 1/2	1 480	770	7,6	1 600	400	3	3/4"	160	68	6 268
		BCC-SD-2017A	400V 3N ~ 50Hz	2	1 980	1 000	8,9	1 700	525	3	1"	180	72	7 287
		BCC-SD-2020A	400V 3N ~ 50Hz	3 1/2	2 130	1 370	10,9	2 400	650	3	1"	220	73	7 667

DIMENSIONS

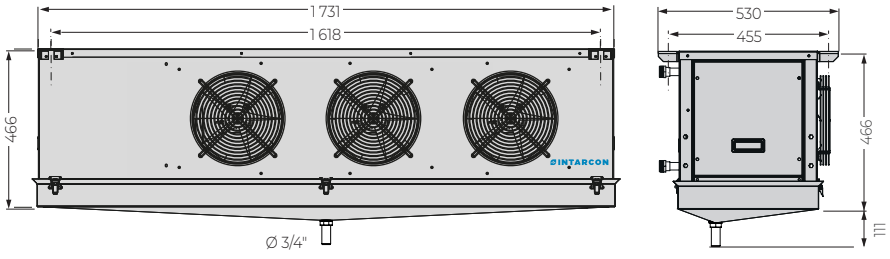
1 series



2 017 series



2 020 series



Dimensions in mm.

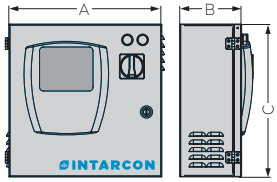
[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT) and water inlet condensation temperature of 7 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Condenser pressure drop in the water circuit.
[3] Recommended air cooler model to combine with the evaporator unit.

Electrical interconnections

For the electrical interconnection from the electrical panel to the unit and to the air condenser (optional), the following interconnection cables must be provided:

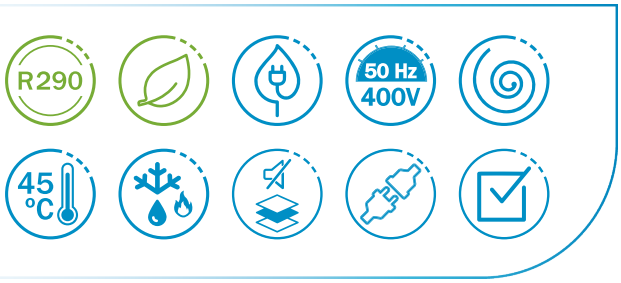
Cabinet - Evaporator	Connection
Compressor for single-phase units (except MCC-ND-1 034)*	3 x 1,5 mm² + T
Compressor for three-phase units and MCC-ND-1 034	3 x 2,5 mm² + T
Manoeuvre	7 x 1 mm²
Probes	5 x 1 mm²
Cabinet - Dry-cooler	Connexion
Pump (1+1 system)	2 x 1,5 mm² + T
Fan (1+1 system)	3 x 1 mm²
Probes (1+1 system)	3 x 1 mm²
Pumping permit (multi system)	2 x 1 mm²

Electrical board dimensions



Dimensions (mm)	A	B	C
Electrical board CC-ND	600	162	400
Electrical board CC-SD	400	162	400

Sigilus | R-290 chillers



Chillers in silent air-condensed construction for commercial refrigeration applications, using a low propane charge as the primary refrigerant contained in the chiller, and water or glycol as the secondary refrigerant for cold transport.

FEATURES

Minimal R-290 refrigerant charge.	■
Scroll hermetic compressor mounted on shock absorbers and acoustically insulated, with internal klixon and crankcase heater.	■
Large area condensing coil, in copper pipes and aluminium fins, tropicalised for ambient temperature up to 45 °C.	■
Motor fan with proportional condensing pressure control by speed variation.	■
Refrigeration circuit made of annealed copper tube equipped with ATEX high and low pressure switches, safety valves and filter.	■
Hydraulic circuit made of copper pipe, with threaded connections, fill/drain valve, air vent, flow switch, thermometers and inlet/outlet pressure gauges.	■
Electric power and control panel, with general differential protection, motor fan circuit breaker and compressor circuit breaker and thermistor.	■
Electronic regulation with digital control interface.	■
Acoustic and light alarm.	■
Built-in hydraulic group.	□
Protective grille for external coil.	□
Polyurethane coating on the condensing coil.	□
Scroll protection system for voltage drops and phase failures.	□
Very low temperature condensation control.	□

■ As standard □ Optional

COOLING DETAIL

Installation example

Propane

Propane or R-290 is a hydrocarbon used as a refrigerant in small commercial refrigeration units. It has a low environmental impact and excellent thermodynamic properties:

- Global-warming potential GWP = 0.02 according to IPCC AR6
- Boiling point at 1.013 bar (°C): -42.10
- Temperature slip (°C): 0
- Safety classification: A3. Not toxic but extremely flammable.

Compressors

Hermetic scroll compressors are characterised by their great robustness and reliability of operation, and as they are cooled exclusively by the refrigerant gas, they provide effective soundproofing.

Triple noise insulation

Sigilus units incorporate triple noise insulation as standard:

- Insulated compressor compartment separated from air flow
- Acoustic compressor jacket (only for as standar three-phase models (Danfoss)) and discharge muffler.
- Low-noise and low-speed fans, mounted on shock absorbers.

400V 3N 50Hz | High temperature | Scroll compressor | R-290

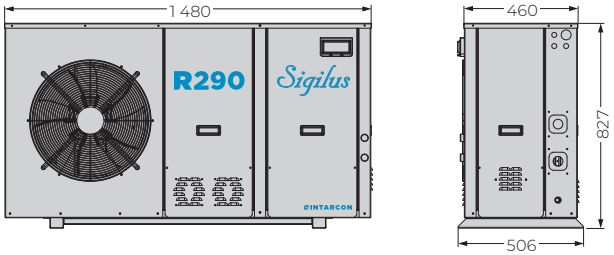
Refrigerant	Series / Model	Power supply	Compressor HP	Compressor Model	Cooling capacity (W) [1] Water I/O temperature 12/7 °C	Input power (W)	Ecodesign SERP [3]	Max. current (A)	Condenser Fan Ø (mm)	Condenser Air flow (m³/h)	Refrig. charge (kg)	Water flow (m³/h)	Hydraulic connection	Weight (kg)	SPL dB(A) [4]	Price (€)
R-290	**AWF-SD-6017A**	400V 3N ~ 50Hz	2 1/2	ZB17KCU	**7 000**	2 000	5,2	7,2	1x Ø 450	4 250	< 0,7	1,2	1"	140	23	**By demand**
R-290	**AWF-SD-6025A**	400V 3N ~ 50Hz	4	ZB25KCU	**9 800**	2 800	5,6	9,2	1x Ø 450	4 250	< 0,7	1,7	1 1/4'"	160	27	**By demand**
R-290	**AWF-SD-7037A**	400V 3N ~ 50Hz	6	ZB37KCU	**13 700**	4 200	5,9	11,8	1x Ø 450	4 500	< 0,7	2,4	1 1/4"	190	29	**By demand**
R-290	**AWF-SD-7049A**	400V 3N ~ 50Hz	8	ZB49KCU	**17 000**	5 300	5,5	19,8	2x Ø 450	7 000	< 0,7	2,9	1 1/4"	200	33	**By demand**

400V 3N 50Hz | Positive temperature | Scroll compressor | R-290

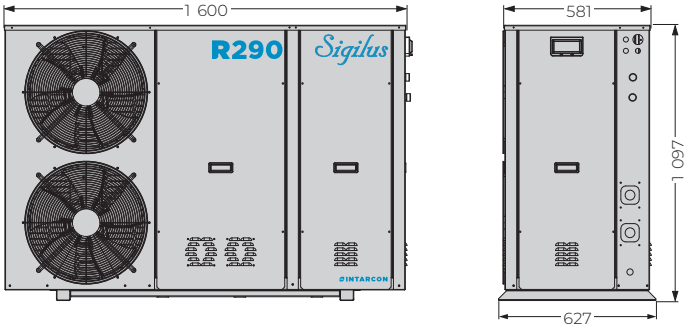
Refrigerant	Series / Model	Power supply	Compressor HP	Compressor Model	Cooling capacity (W) [2] 35 % propylene glycol I/O temperature -2/-8 °C	Input power (W)	Ecodesign SERP [3]	Max. current (A)	Condenser Fan Ø (mm)	Condenser Air flow (m³/h)	Refrig. charge (kg)	Water flow (m³/h)	Hydraulic connection	Weight (kg)	SPL dB(A) [4]	Price (€)
R-290	**MWF-SD-6017A**	400V 3N ~ 50Hz	2 1/2	ZB17KCU	**4 100**	1 800	3,5	7,2	1x Ø 450	4 250	< 0,7	0,6	1"	140	23	**By demand**
R-290	**MWF-SD-6025A**	400V 3N ~ 50Hz	4	ZB25KCU	**5 800**	2 500	3,8	9,2	1x Ø 450	4 250	< 0,7	0,9	1"	160	27	**By demand**
R-290	**MWF-SD-7037A**	400V 3N ~ 50Hz	6	ZB37KCU	**8 300**	3 600	4,1	11,8	1x Ø 450	4 500	< 0,7	1,3	1 1/4"	190	29	**By demand**
R-290	**MWF-SD-7049A**	400V 3N ~ 50Hz	8	ZB49KCU	**10 400**	4 600	4,0	19,8	2x Ø 450	7 000	< 0,7	1,6	1 1/4"	200	33	**By demand**

DIMENSIONS

6 series



7 series



Dimensions in mm.

[1] Nominal performance high temperature: 35 °C ambient temperature with water inlet/outlet at 12/7 °C.
[2] Nominal performance positive temperature: 35 °C ambient temperature with glycol inlet/outlet at -2/-8 °C, with a propylene glycol concentration of 35 %.
[3] Seasonal Energy Performance Ratio (SEPR) according to (UE) 2015/1095 and (UE) 2016/2281.
[4] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

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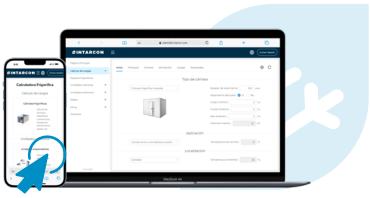

Dry-cooler with built-in hydraulic group

Dry-coolers with built-in hydraulic group, in a low-noise construction, designed for heat dissipation of the refrigeration equipment condensation waterloop.

FEATURES

EC axial motor fans (except CWF-0 and 1).	■
High efficiency water coils with copper pipes and aluminium fins.	■
Hydraulic group with variable flow electronic pump, expansion tank, security valve, filter, thermomanometers and auto-fill valve included.	■
Threaded hydraulic connections.	■
Electric power panel with protection of hydraulic pump, fan motor and frequency variator.	■
Water coil anti-corrosion polyurethane coating.	□ + 8 %
Coil protection grille. 0 up to 4 series: 6 up to 8 series:	 □ + 117 € □ + 204 €

■ As standard □ Optional

Electronic control

Waterloop dry-coolers incorporate an electronic control with the next functions:

- Variation of the water pump flow adapting to the demand, depending on the impulsion pressure (except 0-1 series).
- Waterloop temperature control by fan speed variation, with floating set-point.
- Frost protection.

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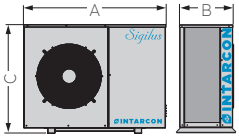
230V I+N ~ 50Hz | Positive temperature | Water

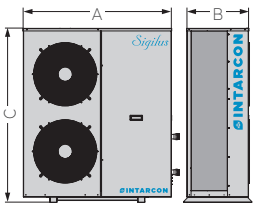
	Series / Model	Power supply	Flow control	Exchange capacity (W) [1]	Air flow (m³/h)	Fan (N x Ø mm)	Water flow (litre/hour)	Input power (kW)	Max. current (A)	Pressure drop (kPa) [2]	Hydraulic connection	Weight (kg)	SPL dB(A) [3]	Price (€)
WATER	**CWF-0A**	230V I+N ~ 50Hz	Constant	3 000	1 700	1x Ø 360	500	0,14	1,1	100	3/4"	76	30	**2 631**
	CWF-1A	230V I+N ~ 50Hz	Constant	4 700	3 200	1x Ø 450	750	0,22	1,8	100	3/4"	79	26	**3 907**
	CWF-2A	230V I+N ~ 50Hz	Variable	6 000	3 700	1x Ø 450	1 000	0,24	2,0	100	1"	81	26	**5 037**
	CWF-3A	230V I+N ~ 50Hz	Variable	10 000	6 500	2x Ø 450	1 500	0,44	3,6	100	1"	101	29	**6 257**
	CWF-4A	230V I+N ~ 50Hz	Variable	12 000	7 000	2x Ø 450	2 000	0,48	3,9	100	1 1/4"	113	29	**6 705**
	CWF-6A	230V I+N ~ 50Hz	Variable	20 000	13 000	4x Ø 450	3 000	0,88	7,0	100	1 1/2"	160	32	**10 520**
	CWF-8A	230V I+N ~ 50Hz	Variable	24 000	14 000	4x Ø 450	4 000	0,96	7,5	100	1 1/2"	185	32	**11 639**

DIMENSIONS

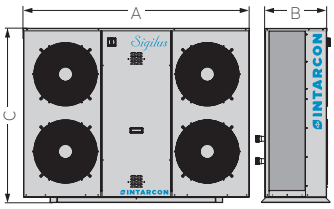
0, 1 and 2 series



3 and 4 series



6 and 8 series



[1] Estimated heat exchange power with air temperature of 35 °C, and water inlet / outlet temperature of 45 / 40 °C.
[2] Available circuit pressure.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

Dimensions (mm)	A	B	C
0 and 1 series	1 030	380	577
2 series	1 080	410	827
3 series	1 150	481	1 097
4 series	1 150	481	1 347
6 series	1 748	481	1 097
8 series	1 748	481	1 347

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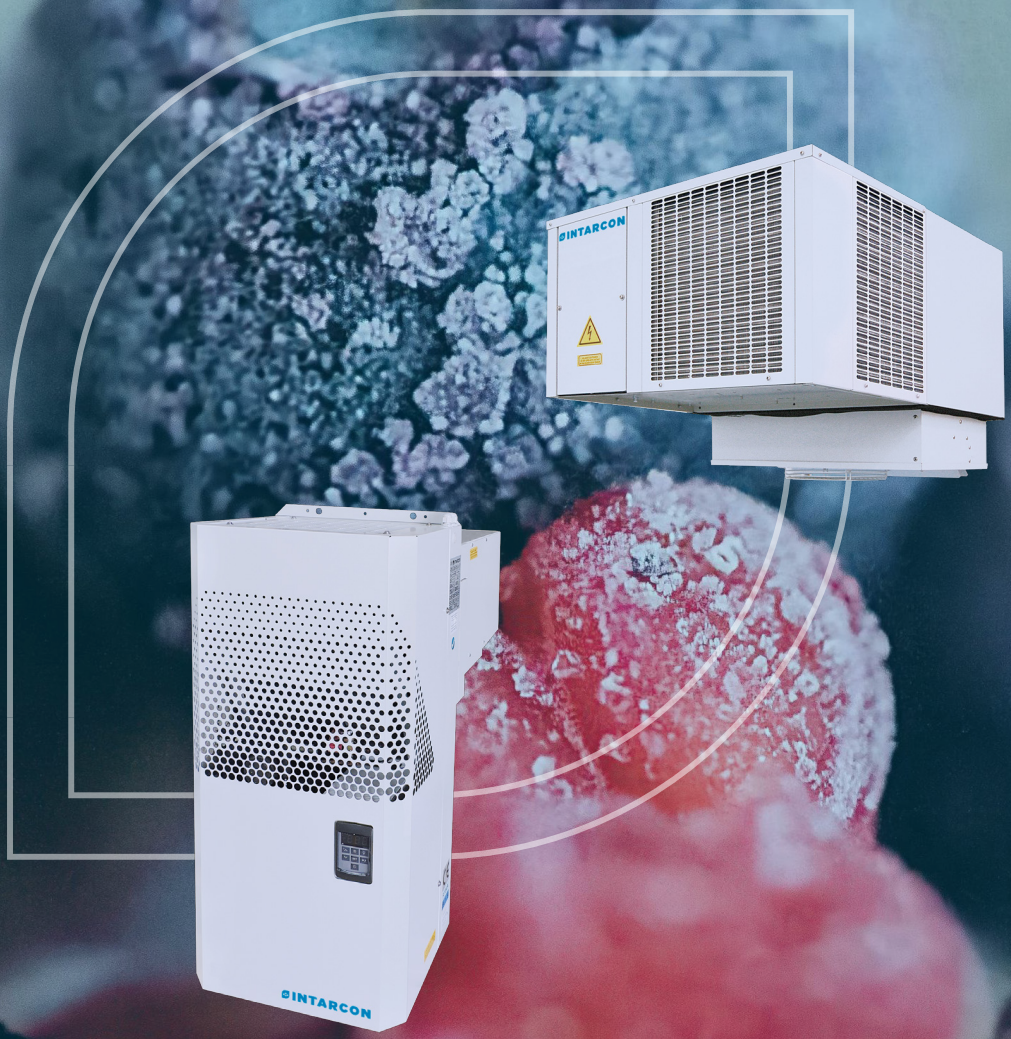


Compact refrigeration units for wall or roof-top installation

Commercial monoblocks A2L

A2L intarblock

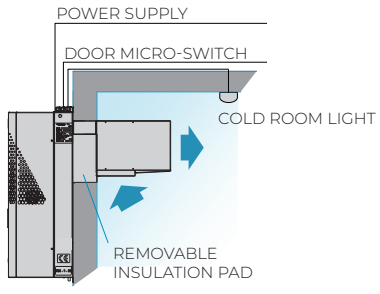
New A2L Self-contained slim monoblock units for small cold rooms for refrigeration and freezing, for wall-mount installation.

FEATURES

R-455A refrigerant charge.	■
Hermetic reciprocating compressor.	■
High pressure switch.	■
Thermostatic expansion valve.	■
MCB protection.	■
Hot gas defrost.	■
Drain pan.	■
Evaporation of condensed water.	■
Cold room LED and door micro-switch cable.	■
Evaporation drawer of 50 mm sandwich panel made of polyurethane foam, internally coated with pre-lacquered steel plate.	■
Multifunction electronic control.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Centrifugal condensing fan with vertical discharge.	□ + 15 %
Evaporator coil epoxy anti-corrosion treatment.	□ + 6 %
Condenser coil polyurethane anti-corrosion treatment.	□ + 4 %
Low voltage protection (single-phase models).	□ + 189 €
Low voltage and phase sequence protection (three-phase models).	□ + 251 €
Master-slave (alternative + simultaneous).	□ + 82 €

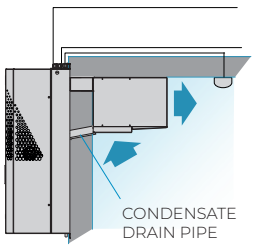
■ As standard □ Optional

INSTALLATION SCHEME



Plug-in frame mounting

A removable insulation pad is included for direct installation through a hole in the cold room wall.



Drop-in frame mounting (except for 0 series)

After cutting a channel for tube passage in the wall panel, the unit can be dropped in before assembling the ceiling panel.

Installation example

Electronic control

intarblock units feature XW270K electronic control as standard:

- Multi-function remote digital control
- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function Jet Cool.
- Night operation mode.

Accessories CV-NN units

- Hopper for adaptation to circular duct (+ 127 €).
- Non-return damper (+ 69 €).
- Door micro-switch (+ 65 €).

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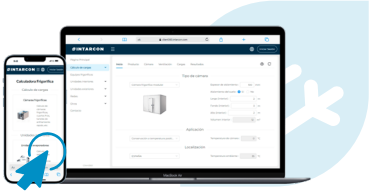
REFRIGERATION CALCULATION SOFTWARE



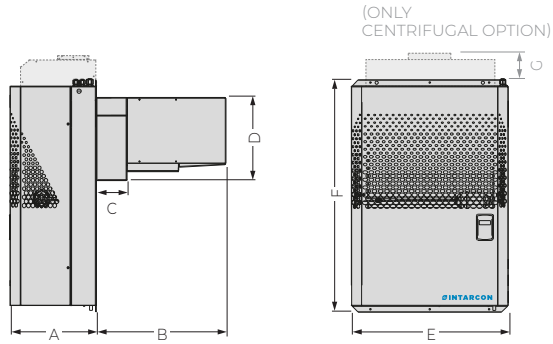
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	ASP (Pa) [2]	Refrig. charge (g)	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	MCV-NN-0010A	230V I+N ~ 50Hz	1/3	691	5	818	9	938	15	480	7,1	400	375	80	< 1,0	37	34	1 993
	MCV-NN-1016A	230V I+N ~ 50Hz	3/4	1 083	10	1 271	17	1 470	27	740	9,4	425	575	80	< 1,0	70	34	2 501
	MCV-NN-2024A	230V I+N ~ 50Hz	1	1 766	19	2 094	32	2 428	51	1 122	14,7	800	950	130	< 1,5	89	35	3 413
	MCV-NN-2026A	230V I+N ~ 50Hz	1 1/2	1 869	21	2 215	34	2 561	55	1 225	15,4	800	950	130	< 1,5	89	36	3 612
	MCV-NN-3034A	230V I+N ~ 50Hz*	1 1/2	2 357	28	2 810	46	3 291	75	1 550	20,4	1 100	1 150	80	< 2,0	101	38	4 171
	MCV-NN-3038A	400V 3N ~ 50Hz	1 3/4	2 522	30	3 007	50	3 505	81	1 654	9,5	1 100	1 150	80	< 2,0	101	40	4 532

230V I+N ~ 50Hz | Negative temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	ASP (Pa) [2]	Refrig. charge (g)	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	BCV-NN-0018A	230V I+N ~ 50Hz	3/4	375	1	468	2	573	3	502	8,4	400	375	80	< 0,5	47	31	2 626
	BCV-NN-1034A	230V I+N ~ 50Hz	1 1/2	677	3	836	6	989	10	993	12,6	425	575	80	< 1,0	71	33	3 110
	BCV-NN-2034A	230V I+N ~ 50Hz	1 1/2	848	5	1 065	9	1 303	15	1 110	13,4	800	950	130	< 1,0	90	35	3 320
	BCV-NN-2055A	230V I+N ~ 50Hz	2	1 090	8	1 377	14	1 678	23	1 398	19,5	800	950	130	< 1,5	96	41	3 973
	BCV-NN-3068A	230V I+N ~ 50Hz*	3	1 562	14	1 936	24	2 358	38	2 013	23,5	1 100	1 150	80	< 1,5	113	44	4 842

DIMENSIONS

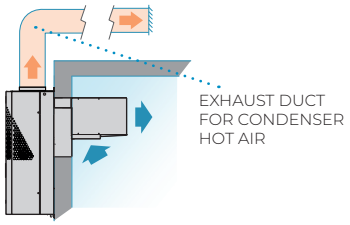


Dimensions (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Fan outlet
0 series	306	250	100	510	420	683	90	405	515	n/a	n/a	n/a	n/a	n/a	185 x 115
1 series	340	514	122	330	400	880	42	380	335	75	38	295	21	218	185 x 115
2 series	340	514	122	330	620	920	140	600	335	75	30	522	16	218	230 x 130
3 series	365	514	122	470	735	940	50	715	475	75	45	607	20	356	2x 185 x 115

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Available Static Pressure of condensation.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Units available with 400V 3N 50Hz power supply.

Centrifugal version

intarblock centrifugal units feature a centrifugal motor fan to duct hot condensation airflow outdoors.



Exhaust duct

Recommended size for 20 m long steel, PVC or fibreglass ducts (each elbow at 90° equals 5 m in length). For flexible or semi-flexible ducts use a larger size:

- 0 series: 200 x 150 mm or Ø 150 mm
- 1 series: 200 x 200 mm or Ø 150 mm
- 2 series: 250 x 150 mm or Ø 200 mm
- 3 series: 300 x 200 mm or Ø 250mm

intartop A2L

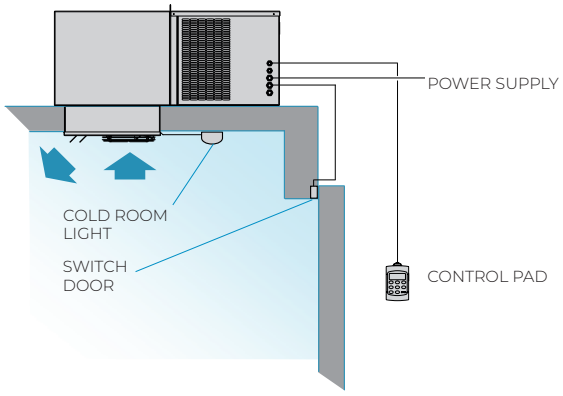
Self-contained slim monoblock for small and medium refrigeration and conservation cold rooms, units for ceiling panel installation.

FEATURES

R-455A refrigerant charge.	■
Hermetic reciprocating compressor.	■
High pressure switch.	■
Thermostatic expansion valve.	■
MCB protection.	■
Hot gas defrost.	■
Stainless steel drain pan and evaporation of condensed water.	■
Cold room LED light and micro-switch cable.	■
Evaporator case made in sandwich panel, with 50 mm polyurethane insulation, internally covered in steel sheet.	■
Multifunction electronic control.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Centrifugal condensing fan with horizontal discharge.	□ + 15 %
Centrifugal condensing fan with vertical discharge.	□ + 15 %
Evaporator coil epoxy anti-corrosion treatment.	□ + 6 %
Condenser coil polyurethane anti-corrosion treatment.	□ + 4 %
Low voltage protection.	□ + 189 €
Master-slave (alternative + simultaneous).	□ + 82 €

■ As standard □ Optional

INSTALLATION SCHEME



Installation example

Electronic control

intarblock units feature XW270K electronic control as standard:

- Multi-function remote digital control
- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function Jet Cool.
- Night operation mode.

Accessories CR-NN units

- Hopper for adaptation to circular duct (+ 127 €).
- Non-return damper (+ 69 €).
- Door micro-switch (+ 65 €).

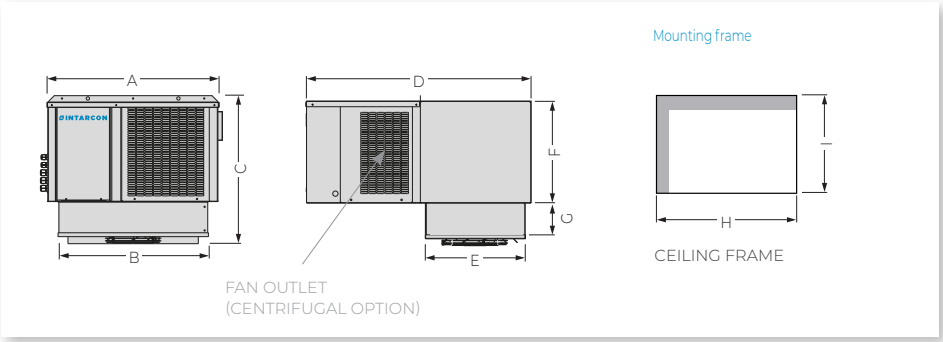
230V I+N ~ 50Hz | Positive temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	ASP (Pa) [2]	Refrig. charge (g)	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	MCR-NN-0010A	230V I+N ~ 50Hz	1/3	691	5	821	9	950	15	480	7,07	400	375	80	< 1,0	63	34	2 135
	MCR-NN-1016A	230V I+N ~ 50Hz	3/4	1 095	10	1 286	17	1 489	28	741	9,37	575	575	80	< 1,0	83	34	2 729
	MCR-NN-2024A	230V I+N ~ 50Hz	1	1 850	20	2 210	34	2 592	56	1 100	14,41	1050	1 000	120	< 1,5	97	35	3 794
	MCR-NN-2026A	230V I+N ~ 50Hz*	1 1/2	1 964	22	2 340	37	2 732	59	1 201	15,11	1050	1 000	120	< 2,0	97	36	4 245

230V I+N ~ 50Hz | Negative temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	ASP (Pa) [2]	Refrig. charge (g)	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	BCR-NN-0018A	230V I+N ~ 50Hz	3/4	378	1	464	2	574	3	500	8,4	400	375	80	< 0,5	73	31	2 706
	BCR-NN-1034A	230V I+N ~ 50Hz	1 1/2	672	3	801	5	1 013	10	965	12,6	575	575	80	< 1,0	84	33	3 322
	BCR-NN-2055A	230V I+N ~ 50Hz*	2	1 186	9	1 475	15	1 813	26	1 389	19,2	1 050	1 000	120	< 1,5	104	41	4 438
	BCR-NN-3068A	230V I+N ~ 50Hz*	3	1 617	15	1 965	24	2 363	38	1 928	22,9	1 300	1 500	140	< 1,5	144	44	5 580

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G	H	I	Fan outlet	Hopper
0 series	600	430	480	790	375	330	100	435	385	185 x 115	Ø 150
1 series	665	582	574	850	379	385	135	590	385	185 x 115	Ø 150
2 series	835	756	677	850	379	469	135	760	385	230 x 130	Ø 200
3 series	925	843	680	1 070	454	485	145	850	460	266 x 236	Ø 250

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Available Static Pressure of condensation.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units in 400V 3N 50Hz power supply.

Exhaust duct

Recommended size for 20 m long steel, PVC or fibreglass ducts (each elbow at 90° equals 5 m in length). For flexible or semi-flexible ducts use a larger size:

- 0 series: 200 x 150 mm or Ø 150 mm
- 1 series: 200 x 200 mm or Ø 150 mm
- 2 series: 250 x 150 mm or Ø 200 mm
- 3 series: 200 x 200 mm or Ø 250 mm

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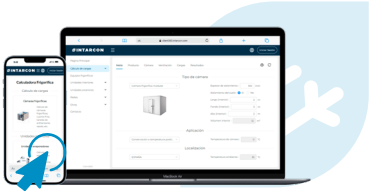

INTARCON

Units composed by condensing and evaporator unit

Split systems

A2L

A2L

New developments

Removable left grille

All panels/registers are removable, allowing for easier and safer maintenance of the unit.

1

Independent access to the electrical panel

The electrical panel is located in a separate compartment, improving access to disconnect the unit from the power supply.

2

intarsplit A2L SH-NN

Connections on the left side

The new A2L units are equipped with Flare connections providing a quicker and easier assembly process.

3

Integrated safety valve in the boiler

4

Removable front grille

For optimal maintenance, the fan guard grille can be removed for cleaning and access to the fan.

1

Removable fan and connectors

For better maintenance, the condensing unit is equipped with quick connectors for easy and safe disconnection and removal of the fan.

2

Sigilus A2L SF-NN

R455A

Integrated safety valve in the boiler

Access to the boiler through the back panel.

3

Independent access to the electrical panel

The electrical panel is located in a separate compartment, improving access to disconnect the unit from the power supply.

5

Connections on the left side

The new A2L units are equipped with Flare connections providing a quicker and easier assembly process.
Threaded connection for safety valve conduit.

4

Sigilus A2L

Split systems for small and medium size cold rooms, composed by a low-noise condensing unit and a slim-type evaporator with A2L refrigerant, with low GWP.

FEATURES

Hermetic reciprocating compressor.	■
High and low pressure switches.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Thermostatic expansion valve.	■
Electrical heater defrost.	■
Drain pan.	■
Flare-type connections (up to 3/8"-3/4") and service valves.	■
MCB protection.	■
Drain resistance in NT units.	■
Multifunctional electronic control with remote keyboard and digital condensation control.	■
Crankcase heater.	■
Conducted safety valve.	■
Hot gas defrost.	□ + 5 %
Sight gauge.	□ + 117 €
Master-slave (alternative + simultaneous).	□ + 82 €
Low voltage protection (single-phase models).	□ + 189 €
Low voltage and phase sequence protection (three-phase models).	□ + 251 €
Condensing control for very low ambient temperature.	□ + 734 €
Larger sized multifunction electronic control.	□ + 192 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %

■ As standard □ Optional

Installation example

Electronic control

Sigilus units feature XM670K electronic control as standard:

- Multi-function remote digital control.
- Internal clock for programming of energy saving cycles and defrost.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Accessories SF-NN units

- Cold room LED light (+ 40 €).
- Door micro-switch (+ 65 €).
- Electrical supply hose (5 m) and interconnection hose (10 m) (+ 3 %).

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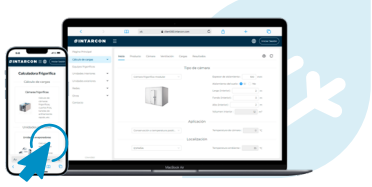
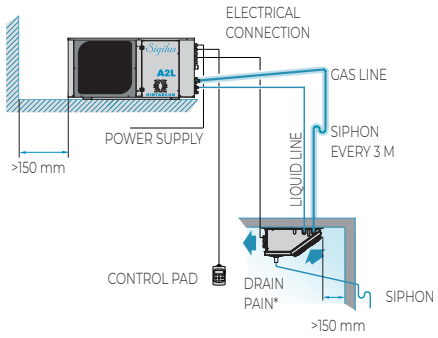
REFRIGERATION CALCULATION SOFTWARE



INSTALLATION SCHEME



Maximum vertical distance between units of 15 m if the condensing unit is placed at a higher level than the evaporating unit, and 6 m otherwise.
*20 % minimum slope of draining pipe for negative temperature models.

Triple noise insulation

Sigilus units incorporate triple noise insulation as standard:

- Insulated compressor compartment separated from air flow
- Acoustic compressor jacket (only for as standar three-phase models (Danfoss)) and discharge muffler.
- Low-noise and low-speed fans, mounted on shock absorbers.

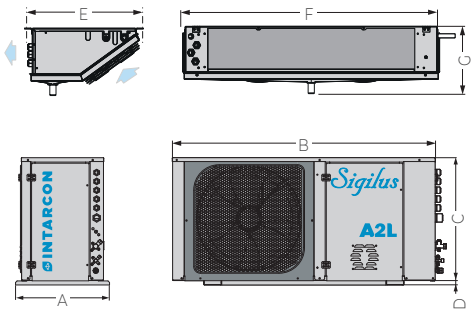
230V I+N ~ 50Hz | Positive temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. air flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	**MSF-NN-11009A**	230V I+N ~ 50Hz	1/3	**874**	**7**	1 042	13	1 225	22	579	5,8	475	1 700	1/4"-3/8"	< 1,5	65+12	37	**3 281**
	MSF-NN-11012A	230V I+N ~ 50Hz	1/2	**1 101**	**10**	1 305	17	1 505	28	732	6,8	475	1 700	1/4"-3/8"	< 2,0	65+12	38	**3 495**
	MSF-NN-12018A	230V I+N ~ 50Hz	3/4	**1 672**	**18**	2 049	31	2 450	52	1 010	9,9	950	1 700	1/4"-1/2"	< 2,5	76+18	38	**4 289**
	MSF-NN-12026A	230V I+N ~ 50Hz	1 1/2	**2 151**	**25**	2 607	42	3 095	69	1 252	13,5	950	1 700	1/4"-1/2"	< 3,0	77+18	38	**4 660**
	MSF-NN-12034A	230V I+N ~ 50Hz*	1 1/2	**2 503**	**30**	2 983	49	3 488	80	1 506	19,2	950	1 700	1/4"-1/2"	< 3,5	78+18	40	**5 003**
	MSF-NN-13040A	230V I+N ~ 50Hz*	2	**3 370**	**44**	4 093	73	4 831	135	1 828	17,1	1 500	3 200	3/8"-5/8"	< 4,0	86+33	43	**5 922**

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. air flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	**BSF-NN-11026A**	230V I+N ~ 50Hz	1 1/4	615	2	**795**	**5**	1 002	10	850	9,4	475	1 700	1/4"-3/8"	< 1,0	63+12	31	**4 039**
	BSF-NN-12034A	230V I+N ~ 50Hz	1 1/2	983	6	**1 238**	**11**	1 505	19	1 204	11,5	950	1 700	1/4"-3/8"	< 1,5	71+18	31	**4 782**
	BSF-NN-12054A	230V I+N ~ 50Hz	2	1 307	10	**1 661**	**18**	1 966	29	1 480	17,7	950	1 700	1/4"-1/2"	< 2,0	79+18	33	**5 671**
	BSF-NN-13068A	400V 3N ~ 50Hz*	3	1 962	20	**2 470**	**34**	3 020	55	2 258	11,1	1 500	3 200	3/8"-5/8"	< 2,5	95+33	35	**6 691**

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G
11 series	425	1 189	555	25	430	643	235
12 series	425	1 189	555	25	430	993	235
13 series	425	1 189	555	25	508	1 691	235

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] According to EN-378, split systems with a refrigerant charge of less than 3 kg is exempted from obligatory periodic leakage checks, due to their lower environmental and safety impact. However, it is essential to ensure that the safety conditions of the equipment and its location are adequate.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 230V / 400V 3N 50Hz power supply.

Electrical interconnections (SF-NN models)

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	3 x 1 mm²	
Manoeuvre	2 x 1 mm²	
Fans	2 x 1 mm² + T	
Defrost	2 x 1,5 mm² + T	
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

intarsplit A2L

Split systems for small and medium size cold rooms, composed by a condensing unit in horizontal construction and a slim-type evaporating unit with A2L refrigerant, with low GWP.

FEATURES

Hermetic reciprocating compressor.	■
High and low pressure switches.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Thermostatic expansion valve.	■
Electrical heater defrost.	■
Drain pan.	■
Flare-type connections (up to 3/8"-3/4") and service valves.	■
MCB protection.	■
Drain resistance in NT units.	■
Multifunctional electronic control with remote keyboard and digital condensation control.	■
Conducted security valve.	■
Crankcase heater.	■
Centrifugal fan.	□ + 20 %
Hot gas defrost.	□ + 5 %
Sight gauge.	□ + 117 €
Master-slave (alternative + simultaneous).	□ + 82 €
Low voltage protection (single-phase models).	□ + 189 €
Low voltage and phase sequence protection (three-phase models).	□ + 251 €
Condensing control for very low ambient temperature.	□ + 734 €
Cold water condensation (glicol inlet temperature: -10 up to 5 °C).	□ + 5 %
Water condensation (water inlet temperature: 5 up to 50 °C).	□ + 9 %
Water solenoid valve (supplied separately from the unit).	□ + 183 €
Water solenoid valve (integrated in the unit).	□ + 183 €
Larger sized multifunction electronic control.	□ + 192 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %

■ As standard □ Optional

Installation example

Electronic control

intarsplit units feature XM670K electronic control as standard:

- Multi-function remote digital control.
- Internal clock for programming of energy saving cycles and defrost.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Accessories SH-NN units

- Cold room LED light (+ 40 €).
- Door micro-switch (+ 65 €).
- Electrical supply hose (5 m) and interconnection hose (10 m) (+ 3 %).

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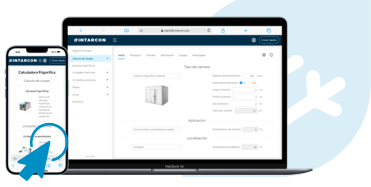
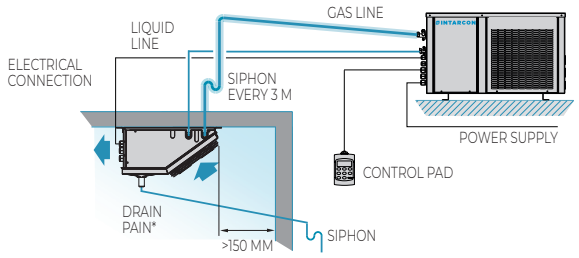
REFRIGERATION CALCULATION SOFTWARE



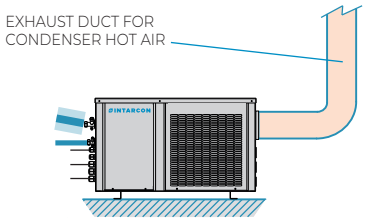
INSTALLATION SCHEME



Maximum vertical distance between units of 15 m if the condensing unit is placed at a higher level than the evaporating unit, and 6 m otherwise.
*20 % minimum slope of draining pipe for negative temperature models.

Centrifugal version (optional)

The units of the centrifugal intarsplit series incorporates a centrifugal turbine that allows the condensation hot air to be transported outside by means of air ducts.



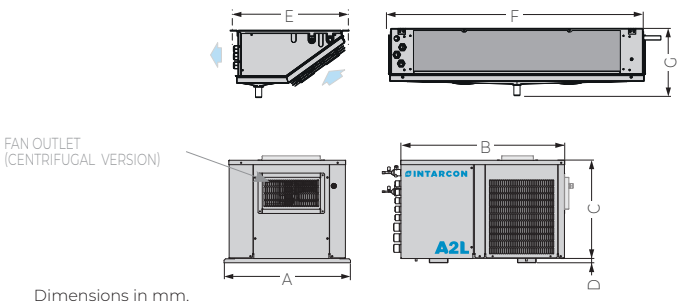
230V I+N ~ 50Hz | Positive temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. air flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	**MSH-NN-11009A**	230V I+N ~ 50Hz	1/3	**810**	**6**	949	11	1 099	19	537	5,4	475	575	1/4"-3/8"	< 1,5	51+12	34	**2 962**
	MSH-NN-11012A	230V I+N ~ 50Hz	1/2	**992**	**9**	1 160	15	1 332	24	705	6,4	475	575	1/4"-3/8"	< 2,0	52+12	35	**3 211**
	MSH-NN-22018A	230V I+N ~ 50Hz	3/4	**1 562**	**16**	1 909	28	2 268	47	1 045	9,7	950	1 400	1/4"-1/2"	< 2,5	71+12	40	**4 177**
	MSH-NN-22026A	230V I+N ~ 50Hz	1 1/2	**1 971**	**22**	2 368	37	2 778	61	1 304	13,3	950	1 400	1/4"-1/2"	< 3,0	72+18	40	**4 676**
	MSH-NN-33034A	230V I+N ~ 50Hz*	1 1/2	**2 685**	**33**	3 212	54	3 771	88	1 701	19,2	1500	1 700	3/8"-5/8"	< 3,5	83+18	42	**5 650**
	MSH-NN-33040A	230V I+N ~ 50Hz*	2	**3 080**	**39**	3 702	65	4 329	110	1 753	16,4	1500	1 700	3/8"-5/8"	< 4,0	91+33	45	**6 309**

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (kW)	Max. current (A)	Evap. flow (m³/h)	Cond. air flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-455A	**BSH-NN-11026A**	230V I+N ~ 50Hz	1 1/4	574	2	**714**	**4**	874	8	804	9,0	475	575	1/4"-3/8"	< 1,0	63+12	31	**3 611**
	BSH-NN-22034A	230V I+N ~ 50Hz	1 1/2	973	6	**1 186**	**11**	1 407	17	1 219	11,3	950	1 400	1/4"-1/2"	< 1,5	71+18	31	**4 549**
	BSH-NN-22054A	230V I+N ~ 50Hz	2	1 221	9	**1 510**	**16**	1 788	25	1 510	17,5	950	1 400	1/4"-1/2"	< 2,0	79+18	33	**5 185**
	BSH-NN-33068A	400V 3N ~ 50Hz*	3	1 788	17	**2 249**	**30**	2 735	48	2 183	10,3	1500	1 700	3/8"-5/8"	< 2,5	95+33	35	**6 626**

DIMENSIONS



Dimensions in mm.

Dimensions (mm)	A	B	C	D	E	F	G
11 series	598	776	485	25	430	643	235
22 series	598	902	485	25	430	993	235
33 series	698	1 032	535	25	508	1 691	235

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] According to EN-378, split systems with a refrigerant charge of less than 3 kg is exempted from obligatory periodic leakage checks, due to their lower environmental and safety impact. However, it is essential to ensure that the safety conditions of the equipment and its location are adequate.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 230V / 400V 3N 50Hz power supply. Available static pressure of condensation: 100 Pa.

Electrical interconnections (SH-NN models)

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	3 x 1 mm²	
Manoeuvre	2 x 1 mm²	
Fans	2 x 1 mm² + T	
Defrost	2 x 1,5 mm² + T	
Control pad	2 x 1 mm²	
Switch door	2 x 1 mm²	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

A2L cooling connections

INTARCON commercial range split units are delivered pre-adjusted in factory, with R-455A refrigerant charge enough for up to 10 m of cooling pipes.

Condensing units feature service valves and Flare-type connections for a flared copper pipe for diameters up to 3/4" and ready-to-solder connections for diameters from 7/8".

We recommend using the following nominal pipe diameters for both, liquid and gas lines, according to the length of the cooling pipes. For total length longer than 10 m some extra refrigerant and polyester oil (POE) charge must be added as indicated in the following table:

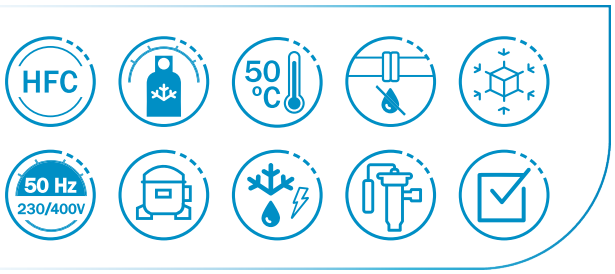
		Model	Connection and recommended liquid-gas pipe diameter depending on pipe length							Additional charge in grams of refrigerant / oil			
			Connexions	5 m	10 m	15 m	20 m	25 m	30 m	15 m	20 m	25 m	30 m
R-455A	POSITIVE TEMP.	-009	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"				90/80			
		-012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"			90/80	180/160		
		-018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"		90/80	180/160	270/240	
		-026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	90/80	180/160	270/240	360/320
		-034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	90/80	180/160	270/240	360/320
		-040	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	150/130	300/260	450/400	590/520
	NEGATIVE TEMP.	-026	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	90/90	180/190	260/270	350/370
		-034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	90/90	180/190	260/270	350/370
		-054	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	90/90	180/190	270/280	350/370
		-068	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	150/160	290/300	440/460	590/620
		-124	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	150/160	290/300	440/460	590/620

INTARCON

Units composed by condensing and evaporator unit

Split systems HFC

Sigilus



Split systems for small and medium size cold rooms at positive and negative temperature, composed of a low-noise condensing unit and a slim-type, cubic-type or double-flow evaporating unit.

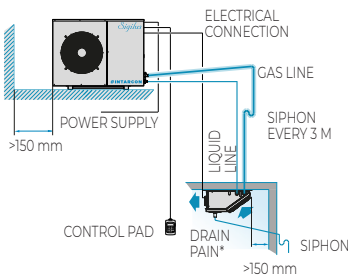
FEATURES

Compressor sound insulation only on standard three-phase units (DANFOSS compressor).	■
Large surface L-shape condensing coil (straight for series 0 and 1).	■
Low-speed condensing motor fans.	■
Proportional control of condensing pressure (optional for -N version).	■
Proportional control (except 0 series).	□ + 317 €
High and low pressure switches.	■
Discharge muffler (for models 1 HP or more) and crankcase heater.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Built-in thermostatic expansion valves and solenoid valves.	■
Electrical heater defrost (except ASF series).	■
Drain pan.	■
Flare-type connections (up to 1/2"-3/4") and service valves.	■
MCB protection.	■
Multifunctional electronic control with remote keyboard and digital condensation control.	■
Liquid injection system for negative temperature models with R-449A.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Coil protection grille.	□ + 117 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %
Larger sized multifunction electronic control.	□ + 192 €

■ As standard □ Optional

INSTALLATION SCHEME

Maximum vertical distance between units of 15 m if the condensing unit is placed at a higher level than the evaporating unit, and 6 m otherwise.
*20 % minimum slope of draining pipe for negative temperature models.



Electronic control

Sigilus split systems feature XM670K electronic control as standard:

- Multi-function remote digital control.
- Internal clock for programming of energy saving cycles and defrost.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Triple noise insulation

Sigilus condensing units feature triple noise insulation:

- Noise insulated compressor compartment, separated from the air flow.
- Hermetic reciprocating compressor with insulation cover (three-phase models) and discharge muffler.
- Low-noise and low-speed fan on shock absorbing structure.

Proportional control of condensing pressure

Proportional control of condensing pressure, for prolonged operation at under low ambient temperature, standard for Sigilus series (optional for slim-type).

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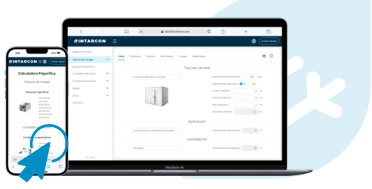


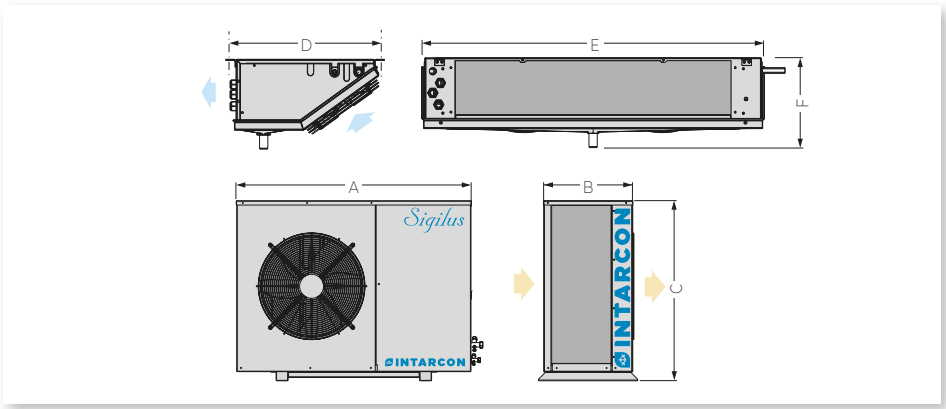
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -5 °C W	-5 °C m³	0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Vent. evap.	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-134a	MSF-NY-00010A	230V I+N ~ 50Hz	3/8	497	2.9	637	5.0	788	8.8	945	13	410	4.2	1x Ø 172	300	350	1/4"-3/8"	< 1.5	46+12	28	2 919
	MSF-NY-00015A	230V I+N ~ 50Hz	1/2	653	3.6	832	7.4	1 004	11	1 188	16	510	5.2	1x Ø 172	300	350	1/4"-3/8"	< 1.5	49+12	29	3 218
	MSF-NY-11015A	230V I+N ~ 50Hz	1/2	805	4.7	1 031	10	1 296	14	1 582	28	560	5.6	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	57+16	34	3 368
	MSF-NY-11026A	230V I+N ~ 50Hz	3/4	1 076	9.0	1 412	16	1 738	25	2 084	40	800	9.2	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	65+16	34	4 090
	MSF-NY-12033A	230V I+N ~ 50Hz	1	1 475	13	1 859	20	2 289	35	2 741	57	1 020	9.7	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.0	67+24	34	5 110
	MSF-NY-12053A	230V I+N ~ 50Hz*	1 1/2	1 811	22	2 347	33	2 872	50	3 439	79	1 420	12.3	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.0	77+24	35	5 992
	MSF-NY-13074A	230V I+N ~ 50Hz*	2	2 772	30	3 528	50	4 363	76	5 229	125	1 940	17.2	3x Ø 254	1 725	1 700	1/4"-3/4"	< 3.5	79+45	37	6 524
	MSF-NY-23086A	400V 3N ~ 50Hz	4	3 355	39	4 384	65	5 376	108	6 437	160	2 180	14.1	3x Ø 254	1 725	3 700	3/8"-7/8"	< 4.5	96+45	38	7 264
	MSF-NY-24108A	400V 3N ~ 50Hz	5	4 347	58	5 649	90	6 920	138	8 316	220	2 830	18.2	4x Ø 300	3 100	3 700	3/8"-7/8"	< 5.0	98+45	35	8 539
	MSF-NY-24136A	400V 3N ~ 50Hz	6 1/2	5 486	75	6 899	110	8 363	150	9 949	280	3 550	22.2	4x Ø 300	3 100	3 700	3/8"-1 1/8"	< 5.5	101+55	34	10 671
	MSF-NY-34171A	400V 3N ~ 50Hz	8	6 080	88	7 613	130	9 240	200	10 978	350	4 160	25.2	4x Ø 300	3 100	4 000	3/8"-1 1/8"	< 5.5	140+55	40	12 161
R-449A	MSF-NG-0008A	230V I+N ~ 50Hz	1/3	611	2.9	759	5.0	915	8.8	1 103	13	430	5.1	1x Ø 172	300	350	1/4"-3/8"	< 1.5	47+12	29	2 749
	MSF-NG-0010A	230V I+N ~ 50Hz	3/8	739	3.6	894	6.1	1 056	10	1 254	15	530	4.8	1x Ø 172	300	350	1/4"-3/8"	< 1.5	49+12	29	3 032
	MSF-NG-0012A	230V I+N ~ 50Hz	1/2	818	4.7	981	7.4	1 153	12	1 358	21	630	5.6	1x Ø 172	300	350	1/4"-3/8"	< 1.5	50+12	29	3 174
	MSF-NG-1014A	230V I+N ~ 50Hz	1/2	882	8.0	1 095	12	1 322	20	1 585	34	770	6.5	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	59+16	34	3 538
	MSF-NG-1016A	230V I+N ~ 50Hz	5/8	972	10	1 210	15	1 462	24	1 759	40	810	7.4	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	67+16	34	3 855
	MSF-NG-1018A	230V I+N ~ 50Hz	3/4	1 397	12	1 649	19	1 915	28	2 245	45	940	8.7	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	68+16	34	4 284
	MSF-NG-2024A	230V I+N ~ 50Hz	1	1 513	14	1 958	22	2 420	35	2 958	57	1 260	11.1	2x Ø 200	1 050	1 700	1/4"-1/2"	< 2.5	82+24	34	4 816
	MSF-NG-2026A	230V I+N ~ 50Hz*	1 1/4	1 712	16	2 147	25	2 611	39	3 157	64	1 440	11.5	2x Ø 200	1 050	1 700	1/-4"-1/2"	< 2.5	83+24	34	5 031
	MSF-NG-2034A	230V I+N ~ 50Hz*	1 1/2	2 120	21	2 606	33	3 117	50	3 730	79	1 830	16.1	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.5	83+24	35	5 333
	MSF-NG-3038A	400V 3N ~ 50Hz	1 3/4	2 770	29	3 394	46	4 078	71	4 894	112	1 890	8.1	3x Ø 254	1 725	3 200	1/4"-5/8"	< 3.0	82+45	29	6 036
	MSF-NG-4048A	400V 3N ~ 50Hz	2	3 368	39	4 231	62	5 158	92	6 225	145	2 340	9.6	3x Ø 254	1 725	3 700	3/8"-3/4"	< 4.5	84+45	26	6 559
	MSF-NG-4054A	400V 3N ~ 50Hz	2 1/2	3 792	47	4 671	70	5 640	105	6 780	160	2 540	10.1	3x Ø 254	1 725	3 700	3/8"-3/4"	< 4.5	85+45	26	7 006

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Vent. evap.	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-449A	BSF-NG-1026A	230V I+N ~ 50Hz	3/4	763	3.2	952	7.0	1 155	13	820	8.5	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	67+16	34	4 334
	BSF-NG-2034A	230V I+N ~ 50Hz	1 1/4	930	3.9	1 107	8.1	1 437	15	1 180	11.3	2x Ø 200	1 050	1 700	1/4"-1/2"	< 2.0	83+16	34	4 599
	BSF-NG-2055A	230V I+N ~ 50Hz*	1 3/4	1 260	9.0	1 710	16	2 190	30	1 700	17.5	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.5	85+24	36	5 631
	BSF-NG-2075A	230V I+N ~ 50Hz*	2 1/2	1 655	13	2 130	22	2 625	38	2 100	25.5	2x Ø 200	1 050	1 700	1/4"-5/8"	< 3.5	90+24	37	5 934
	BSF-NG-3075A	230V I+N ~ 50Hz*	2 1/2	1 755	14	2 450	27	3 080	48	2 300	26.3	3x Ø 254	1 725	1 700	1/4"-5/8"	< 3.5	90+45	37	6 363
R-452A	BSF-NB-4096A	400V 3N ~ 50Hz	3 1/2	1 847	19	2 732	39	3 504	68	2 480	12.0	3x Ø 254	1 725	3 700	3/8"-3/4"	< 4.5	97+45	39	8 247
	BSF-NB-4108A	400V 3N ~ 50Hz	4	2 513	29	3 262	50	3 990	78	2 820	14.6	3x Ø 254	1 725	3 700	3/8"-7/8"	< 5.0	97+45	37	8 927
	BSF-NB-4136A	400V 3N ~ 50Hz	5	2 973	37	3 715	61	4 572	100	3 640	16.8	3x Ø 254	1 725	3 700	3/8"-7/8"	< 5.0	100+45	32	9 630

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
0 and 00 series	671	308	442	417	549	185	1x Ø 172
1 and 11 series	1 030	380	577	430	643	235	1x Ø 200
2 and 12 series	1 030	380	577	430	993	235	2x Ø 200
3 and 13 series	1 030	380	577	508	1 691	235	3x Ø 254
4 and 23 series	1 080	416	827	508	1 691	235	3x Ø 254
24 series	1 080	416	827	547	2 064	285	4x Ø 300
34 series	1 150	487	1 097	547	2 064	285	4x Ø 300

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), and ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 400V 3N 50Hz power supply.

Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m (hoses not included):

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	2 x 1 mm²	3 x 1 mm²
Defrost	2 x 1,5 mm² + T	4 x 1,5 mm² + T
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	
Door heater cable	2 x 1 mm² at NT	
Cold room light*	2 x 1 mm² + T	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

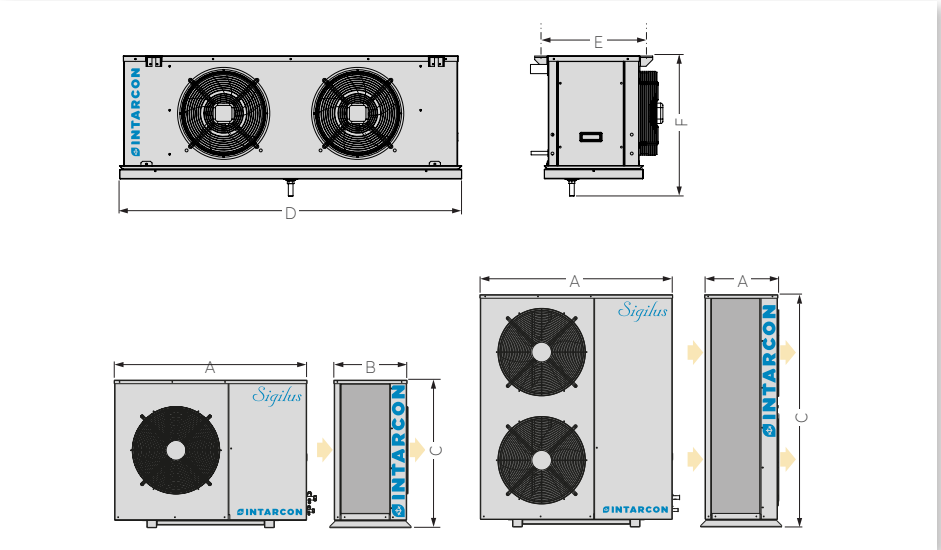
230V 1+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -5 °C W	-5 °C m³	0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Vent. evap.	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-134a	MSF-QY-10068A	400V 3N ~ 50Hz	3 1/2	3 281	42	4 106	60	4 998	69	5 985	110	1 980	12.8	1x Ø 350	2 100	3 200	1/4"-3/4"	< 4.0	82+43	25	7 812
	MSF-QY-20086A	400V 3N ~ 50Hz	4	3 523	45	4 442	65	5 429	75	6 515	120	2 190	14.8	1x Ø 350	2 100	3 700	3/8"-7/8"	< 4.5	96+43	38	8 456
	MSF-QY-21108A	400V 3N ~ 50Hz	5	4 226	58	5 334	81	6 521	130	7 807	210	2 560	16.3	1x Ø 350	2 700	3 700	3/8"-7/8"	< 5.0	98+56	35	9 219
	MSF-QY-22136A	400V 3N ~ 50Hz	6 1/2	5 749	80	7 277	120	8 831	186	10 553	290	3 630	21.1	2x Ø 350	4 150	3 700	3/8"-1 1/8"	< 5.0	101+72	34	11 111
	MSF-QY-33171A	400V 3N ~ 50Hz	8	6 746	100	8 484	172	10 295	197	12 306	354	4 420	24.1	2x Ø 350	5 200	4 000	3/8"-1 1/8"	< 7.0	140+89	40	12 664
	MSF-QY-33215A	400V 3N ~ 50Hz	10	8 426	130	10 563	241	12 857	268	15 419	440	5 240	30.5	3x Ø 350	6 200	6 500	3/8"-1 1/8"	< 7.5	147+94	39	13 939
	MSF-QY-34271A	400V 3N ~ 50Hz	13	11 099	165	13 776	256	16 622	346	19 777	550	7 190	40.2	4x Ø 350	8 300	6 500	1/2"-1 3/8"	< 8.5	152+118	38	17 651
R-449A	MSF-QG-10038A	400V 3N ~ 50Hz	1 3/4	3 280	31	3 919	48	4 625	75	5 472	120	1 770	7.4	1x Ø 350	2 100	3 200	1/4"-5/8"	< 3.0	82+43	29	6 988
	MSF-QG-20048A	400V 3N ~ 50Hz	2	3 964	43	4 736	63	5 572	95	6 605	150	2 210	8.8	1x Ø 350	2 100	3 700	3/8"-3/4"	< 5.0	84+43	26	7 560
	MSF-QG-20054A	400V 3N ~ 50Hz	2 1/2	4 395	48	5 197	72	6 078	110	7 158	170	2 380	9.4	1x Ø 350	2 100	3 700	3/8"-3/4"	< 5.0	85+43	26	7 887
	MSF-QG-21060A	400V 3N ~ 50Hz	3	5 081	61	6 032	89	7 055	130	8 328	200	2 840	10.4	1x Ø 350	2 700	3 700	3/8"-3/4"	< 5.0	88+56	26	8 600
	MSF-QG-21068A	400V 3N ~ 50Hz	3 1/2	5 519	78	6 528	110	7 601	160	8 942	250	3 210	11.4	1x Ø 350	2 700	3 700	3/8"-3/4"	< 5.0	88+56	25	9 936
	MSF-QG-32086A	400V 3N ~ 50Hz	4	6 787	91	8 180	130	9 707	190	11 545	300	4 130	13.6	2x Ø 350	4 150	4 000	1/2"-7/8"	< 7.0	115+72	38	11 324
	MSF-QG-32108A	400V 3N ~ 50Hz	5	8 623	125	10 181	175	11 880	255	13 969	400	5 050	16.7	2x Ø 350	4 150	6 500	1/2"-7/8"	< 7.0	120+72	35	12 465
	MSF-QG-43136A	400V 3N ~ 50Hz	6 1/2	11 105	160	13 146	220	15 399	320	18 145	500	6 630	21.5	3x Ø 350	6 200	7 000	1/2"-1 1/8"	< 10.0	135+89	34	14 825
	MSF-QG-44160A	400V 3N ~ 50Hz	8	11 597	170	14 009	230	16 660	340	19 806	530	7 590	26.0	4x Ø 350	8 300	7 000	5/8"-1 1/8"	< 10.0	157+118	40	17 400

230V 1+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Vent. evap.	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
	BSF-QG-10075A	230V 1+N ~ 50Hz*	2 1/2	1 760	14	2 465	27	3 110	48	2 300	25.1	1x Ø 350	2 100	1 700	1/4"-5/8"	< 3.0	90+43	37	6 849
R-452A	BSF-QB-20096A	400V 3N ~ 50Hz	3 1/2	2 409	20	3 125	43	3 864	74	2 410	11.5	1x Ø 350	2 100	3 700	3/8"-3/4"	< 4.0	97+43	39	9 323
	BSF-QB-21108A	400V 3N ~ 50Hz	4	2 739	28	3 751	50	4 831	86	2 790	13.5	1x Ø 350	2 700	3 700	3/8"-7/8"	< 5.0	97+56	37	10 036
	BSF-QB-22136A	400V 3N ~ 50Hz	5	3 866	53	5 001	83	6 060	130	4 110	16.4	2x Ø 350	4 150	3 700	1/2"-1 1/8"	< 5.0	97+72	32	11 937
	BSF-QB-33215A	400V 3N ~ 50Hz	7 1/2	5 230	80	7 169	130	9 368	200	5 630	25.8	3x Ø 350	6 200	6 500	1/2"-1 1/8"	< 7.5	147+94	39	15 087
	BSF-QB-34271A	400V 3N ~ 50Hz	10	7 407	120	9 595	185	11 634	230	7 300	28.2	4x Ø 350	8 300	6 500	1/2"-1 3/8"	< 8.5	147+118	39	16 897

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F
10 series	1 030	380	577	880	455	581
20 series	1 080	416	827	880	455	581
21 series	1 080	416	827	1 230	455	581
22 series	1 080	416	827	1 530	455	581
32 series	1 150	487	1 097	1 530	455	581
33 series	1 150	487	1 097	1 930	455	581
34 series	1 150	487	1 097	2 430	455	581
43 series	1 150	487	1 346	1 930	455	581
44 series	1 150	487	1 346	2 430	455	581

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), and ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 400V 3N 50Hz power supply.

Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	2 x 1 mm²	3 x 1 mm²
Defrost	2 x 1,5 mm² + T	4 x 1,5 mm² + T
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	
Door heater cable	2 x 1 mm² at NT	
Cold room light*	2 x 1 mm² + T	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

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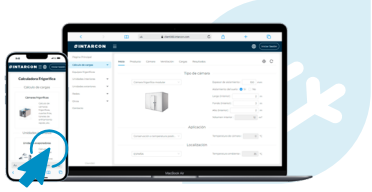
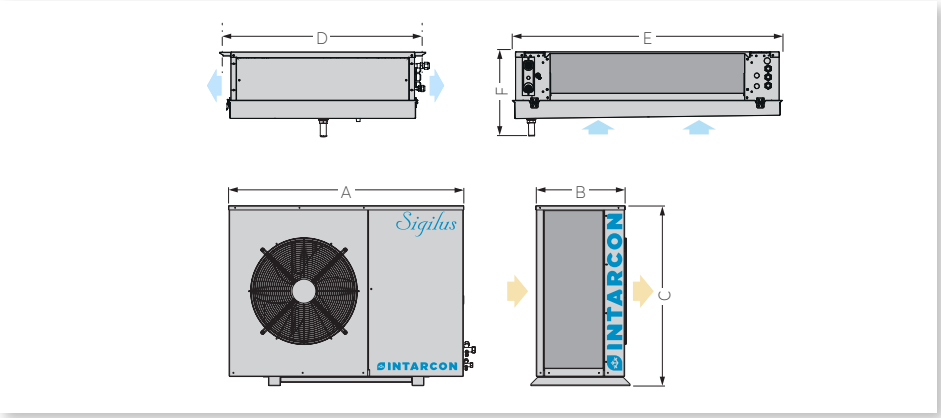


230V I+N ~ 50Hz / 400V 3N ~ 50Hz | High temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 9 °C W	9 °C m³	12 °C W	12 °C m³	15 °C W	15 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-134a	**ASF-DY-11015A**	230V I+N ~ 50Hz	1/2	1 687	16	**1 922**	**21**	2 160	29	690	4.7	1 100	1 700	1/4"-1/2"	< 2.5	57+32	34	**4 628**
	ASF-DY-11026A	230V I+N ~ 50Hz	3/4	2 342	23	**2 678**	**30**	2 977	41	1 050	8.4	1 100	1 700	1/4"-1/2"	< 2.5	65+32	34	**4 958**
	ASF-DY-12033A	230V I+N ~ 50Hz	1	2 840	27	**3 176**	**36**	3 533	48	1 330	10.4	1 800	1 700	1/4"-5/8"	< 3.0	67+45	34	**5 581**
	ASF-DY-13053A	230V I+N ~ 50Hz*	1 1/2	4 226	42	**4 730**	**56**	5 271	72	2 040	13.6	3 150	1 700	3/8"-3/4"	< 4.0	77+65	35	**7 017**
	ASF-DY-13074A	230V I+N ~ 50Hz*	2	6 053	62	**6 825**	**83**	7 634	112	2 610	17.6	3 150	3 200	3/8"-3/4"	< 4.5	79+65	34	**8 155**
	ASF-DY-23086A	400V 3N ~ 50Hz	4	7 151	75	**8 033**	**99**	8 957	131	2 900	14.4	3 150	3 700	3/8"-7/8"	< 5.0	96+65	38	**9 125**
	ASF-DY-24108A	400V 3N ~ 50Hz	5	8 936	99	**10 028**	**122**	11 146	165	3 800	17.5	5 700	3 700	3/8"-7/8"	< 5.5	98+70	35	**10 119**
	ASF-DY-24136A	400V 3N ~ 50Hz	6 1/2	11 093	128	**12 332**	**168**	13 645	224	5 000	21.2	5 700	3 700	1/2"-1 1/8"	< 6.0	98+70	34	**12 917**
	ASF-DY-34171A	400V 3N ~ 50Hz	8	13 424	146	**14 989**	**186**	16 669	251	5 880	25.2	5 700	6 500	1/2"-1 1/8"	< 6.0	120+70	40	**15 362**
	ASF-DY-44215A	400V 3N ~ 50Hz	10	15 771	171	**17 593**	**218**	19 546	294	6 610	30.2	5 700	7 000	1/2"-1 3/8"	< 9.5	120+70	39	**16 894**
R-449A	**ASF-DG-1016A**	230V I+N ~ 50Hz	5/8	2 161	19	**2 387**	**25**	2 635	35	990	7.5	1 100	1 700	1/4"-1/2"	< 2.5	67+32	38	**4 425**
	ASF-DG-1018A	230V I+N ~ 50Hz	3/4	2 462	23	**2 709**	**30**	2 961	42	1 180	8.8	1 100	1 700	1/4"-1/2"	< 2.5	68+32	35	**4 742**
	ASF-DG-1024A	230V I+N ~ 50Hz	1	3 225	29	**3 539**	**39**	3 879	51	1 530	11.3	1 800	1 700	3/8"-5/8"	< 3.5	82+45	34	**5 336**
	ASF-DG-1026A	230V I+N ~ 50Hz*	1 1/4	3 709	35	**4 078**	**46**	4 466	63	1 750	12.0	1 800	3 200	3/8"-5/8"	< 3.5	83+45	40	**5 576**
	ASF-DG-1034A	230V I+N ~ 50Hz*	1 1/2	4 607	43	**5 046**	**58**	5 494	77	2 240	16.6	1 800	3 200	3/8"-5/8"	< 3.5	83+45	39	**6 332**
	ASF-DG-1038A	400V 3N ~ 50Hz	1 3/4	5 393	52	**5 885**	**68**	6 410	91	2 200	7.8	3 150	3 200	3/8"-5/8"	< 4.0	82+65	29	**7 162**
	ASF-DG-2048A	400V 3N ~ 50Hz	2	6 722	67	**7 343**	**87**	7 962	115	2 760	9.3	3 150	3 700	1/2"-3/4"	< 5.5	84+65	26	**7 928**
	ASF-DG-2054A	400V 3N ~ 50Hz	2 1/2	7 447	75	**8 113**	**97**	8 793	130	3 000	9.8	3 150	3 700	1/2"-3/4"	< 5.5	85+65	26	**8 240**
	ASF-DG-3060A	400V 3N ~ 50Hz	3	8 824	94	**9 673**	**115**	10 551	155	3 600	11.9	3 150	6 500	1/2"-7/8"	< 6.0	88+65	26	**9 134**
	ASF-DG-3068A	400V 3N ~ 50Hz	3 1/2	9 662	98	**10 578**	**125**	11 512	165	4 190	12.9	3 150	6 500	1/2"-7/8"	< 6.0	88+65	25	**10 764**
	ASF-DG-4086A	400V 3N ~ 50Hz	4	11 687	120	**12 829**	**155**	14 001	205	4 900	15.2	5 700	7 000	5/8"-1 1/8"	< 9.0	115+70	38	**12 564**
	ASF-DG-4108A	400V 3N ~ 50Hz	5	14 416	150	**15 702**	**190**	17 068	255	6 400	18.2	5 700	7 000	5/8"-1 1/8"	< 8.5	120+70	35	**13 868**

DIMENSIONS



	Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
R-134a	11 series	1 030	380	577	798	736	312	1x Ø 360
	12 series	1 030	380	577	798	1 086	312	2x Ø 360
	13 series	1 030	380	577	798	1 786	312	3x Ø 360
	23 series	1 080	416	827	798	1 786	312	3x Ø 360
	24 series	1 080	416	827	888	2 186	362	3x Ø 450
	34 series	1 150	487	1 097	888	2 186	362	3x Ø 450
	44 series	1 150	487	1 346	888	2 186	362	3x Ø 450
R-449A	ASF-DG-1016A and 1018A	1 030	380	577	798	736	312	1x Ø 360
	ASF-DG-1024 and 1034A	1 030	380	577	798	1 086	312	2x Ø 360
	ASF-DG-1038A	1 030	380	577	798	1 786	312	3x Ø 360
	2 series	1 080	416	827	798	1 786	312	3x Ø 360
	3 series	1 150	487	1 097	798	1 786	312	3x Ø 360
	4 series	1 150	487	1 346	888	2 186	362	3x Ø 450

[1] Nominal performances refer to operation with cold room temperatures of 12 °C (HT) ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 400V 3N 50Hz power supply.

Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	3 x 1 mm² + T	5 x 1 mm² + T
Control pad	2 x 1 mm²	
Condensate pump	3 x 1 mm²	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

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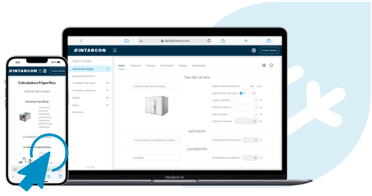
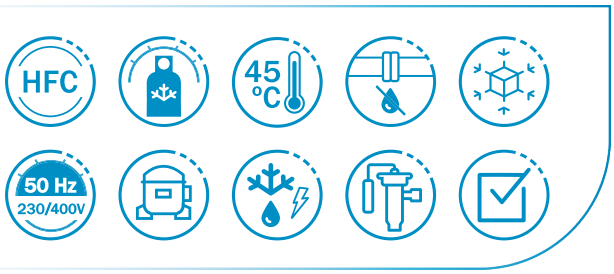
REFRIGERATION CALCULATION SOFTWARE



intarsplit



Split systems for small and medium size cold rooms at positive and negative temperature, composed by a condensing unit in horizontal construction and a slim-type, cubic-type or double-flow evaporating unit.

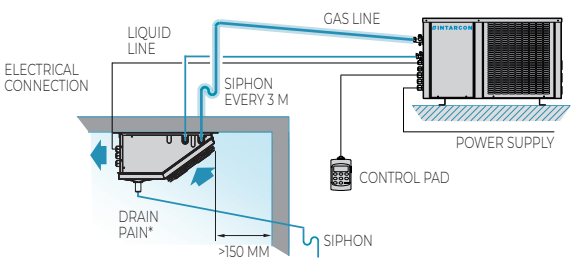
FEATURES

Hermetic reciprocating compressor (noise insulation in 3-phases models).	■
High and low pressure switches.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Thermostatic expansion valve.	■
Electrical heater defrost (except ASH series).	■
Drain pan.	■
Flare-type connections (up to 3/8"-3/4") and service valves.	■
10 m of electrical connections included (except for 4 and 40 up to 54 series).	■
MCB protection.	■
Multifunction electronic control with remote keyboard and digital regulation of condensing pressure.	■
Liquid injection system for negative temperature models with R-449A.	■
Vertical discharge (centrifugal version).	□ + 0 €
Larger sized multifunction electronic control.	□ + 192 €
Change to 400V 3N 50Hz power supply.	□ + 5 %
Crankcase heater.	□ + 77 €
Adaptation of air discharge to circular duct.	□ + 127 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %
Proportional control of condensing pressure:	
Axial version: N, Q and D series 3/33 models onwards.	□ + 317 €
Centrifugal version: C, CQ and CD series 4/43 models onwards.	□ + 506 €

■ As standard □ Optional

INSTALLATION SCHEME

Maximum vertical distance between units of 15 m if the condensing unit is placed at a higher level than the evaporating unit, and 6 m otherwise.
*20 % minimum slope of draining pipe for negative temperature models.



Electronic control

intarsplit systems feature XM670K electronic control as standard.

- Multi-function remote digital control.
- Internal clock for programming of energy saving cycles and defrost.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Digital condensing control

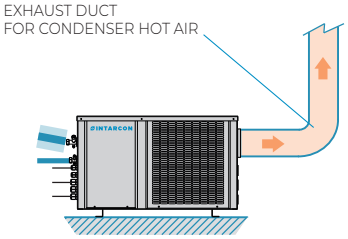
Standard as intarsplit series, it protects the unit against occasional low ambient temperatures. For prolonged operations with negative temperature outside it is recommended to install the proportional condensation control (optional in series 3 and 33 onwards).

Crankcase heater (optional)

The inclusion of the optional crankcase heater is recommended in all outdoor units.

Centrifugal version

Centrifugal intarsplit units incorporates a centrifugal turbine that allows the condensation hot air to be transported outside by means of air ducts.



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REFRIGERATION CALCULATION SOFTWARE

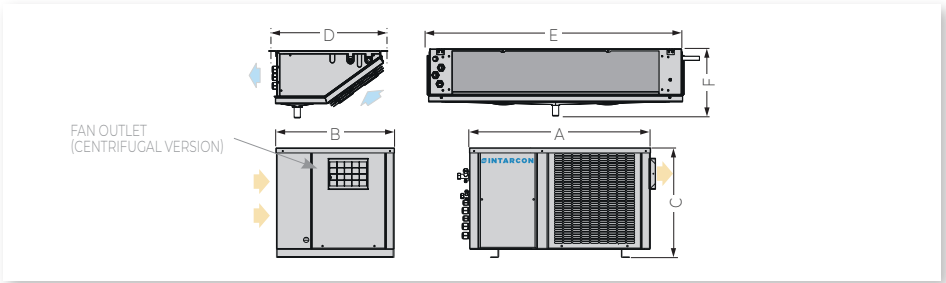
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)	Series / Model Centrifugal	Cond. flow (m³/h)	PED (Pa) [4]	Price (€)
R-134a	MSH-NY-00010A	230V I+N ~ 50Hz	3/8	643	5,1	788	8,5	945	13	460	4,6	300	1/4"-3/8"	< 1,5	37+12	29	2 678	MSH-CY-00010A	375	80	2 975
	MSH-NY-00015A	230V I+N ~ 50Hz	1/2	832	7,2	1 010	10	1 193	19	560	5,6	300	1/4"-3/8"	< 1,5	40+12	32	2 902	MSH-CY-00015A	375	80	3 221
	MSH-NY-11015A	230V I+N ~ 50Hz	1/2	988	8,2	1 220	12	1 474	23	580	5,6	550	1/4"-1/2"	< 1,5	41+16	32	3 067	MSH-CY-11015A	575	80	3 402
	MSH-NY-11026A	230V I+N ~ 50Hz	3/4	1 250	12	1 533	18	1 827	30	820	9,3	550	1/4"-1/2"	< 1,5	48+16	30	3 962	MSH-CY-11026A	575	80	4 400
	MSH-NY-11033A	230V I+N ~ 50Hz	1	1 481	16	1 790	24	2 116	41	930	9,5	550	1/4"-1/2"	< 1,5	50+16	33	4 263	MSH-CY-11033A	575	80	4 734
	MSH-NY-22033A	230V I+N ~ 50Hz	1	1 922	23	2 368	36	2 846	60	1 060	10,0	1 050	1/4"-5/8"	< 2,0	53+24	34	4 755	MSH-CY-22033A	1 000	120	5 276
	MSH-NY-22053A	230V I+N ~ 50Hz*	1 1/2	2 363	31	2 882	48	3 455	73	1 450	12,6	1 050	1/4"-5/8"	< 2,0	63+24	38	5 271	MSH-CY-22053A	1 000	120	5 853
	MSH-NY-33053A	230V I+N ~ 50Hz*	1 1/2	2 688	40	3 318	63	4 069	100	1 550	13,2	1 725	1/4"-3/4"	< 3,5	82+45	38	5 510	MSH-CY-33053A	1 500	140	6 115
	MSH-NY-33074A	230V I+N ~ 50Hz*	2	3 518	47	4 347	71	5 198	110	1 930	17,2	1 725	1/4"-3/4"	< 3,5	84+45	44	5 937	MSH-CY-33074A	1 500	140	6 591
	MSH-NY-43086A	400V 3N ~ 50Hz	4	4 379	66	5 366	100	6 421	165	2 390	14,9	1 725	3/8"-7/8"	< 5,0	107+55	48	7 057	MSH-CY-43086A	3 500	100	7 830
	MSH-NY-44108A	400V 3N ~ 50Hz	5	5 628	88	6 888	140	8 274	220	3 050	19,2	3 100	3/8"-7/8"	< 5,0	109+55	45	7 830	MSH-CY-44108A	3 500	100	8 696
	MSH-NY-44136A	400V 3N ~ 50Hz	6 1/2	6 862	115	8 311	170	9 881	260	3 770	23,2	3 100	3/8"-1 1/8"	< 5,5	112+55	44	9 791	MSH-CY-44136A	3 500	100	10 870
R-449A	MSH-NG-0008A	230V I+N ~ 50Hz	1/3	758	5,1	900	8,5	1 071	13	470	5,1	300	1/4"-3/8"	< 1,5	38+12	34	2 526	MSH-CG-0008A	375	80	2 776
	MSH-NG-0010A	230V I+N ~ 50Hz	3/8	893	6,1	1 042	10	1 223	15	580	4,8	300	1/4"-3/8"	< 1,5	40+12	34	2 735	MSH-CG-0010A	375	80	3 007
	MSH-NG-0012A	230V I+N ~ 50Hz	1/2	980	7,2	1 135	12	1 324	19	650	5,6	300	1/4"-3/8"	< 1,5	41+12	34	2 892	MSH-CG-0012A	375	80	3 180
	MSH-NG-1014A	230V I+N ~ 50Hz	1/2	1 100	10	1 313	16	1 564	26	790	6,7	550	1/4"-1/2"	< 1,5	44+16	34	3 242	MSH-CG-1014A	575	80	3 590
	MSH-NG-1016A	230V I+N ~ 50Hz	5/8	1 216	12	1 451	18	1 734	30	850	7,6	550	1/4"-1/2"	< 1,5	53+16	34	3 454	MSH-CG-1016A	575	80	3 815
	MSH-NG-1018A	230V I+N ~ 50Hz	3/4	1 404	14	1 653	22	1 954	35	1 000	8,9	550	1/4"-1/2"	< 1,5	54+16	34	3 737	MSH-CG-1018A	575	80	4 116
	MSH-NG-1024A	230V I+N ~ 50Hz	1	1 528	16	1 811	24	2 140	41	1 010	11,1	550	1/4"-1/2"	< 1,5	54+16	34	4 018	MSH-CG-1024A	575	80	4 458
	MSH-NG-2024A	230V I+N ~ 50Hz	1	2 020	23	2 424	36	2 896	60	1 270	11,6	1 050	1/4"-1/2"	< 1,5	65+24	35	4 483	MSH-CG-2024A	1 000	120	4 953
	MSH-NG-2026A	230V I+N ~ 50Hz*	1 1/4	2 230	26	2 640	41	3 131	64	1 360	12,0	1 050	1/4"-1/2"	< 1,5	66+24	36	4 693	MSH-CG-2026A	1 000	120	5 224
	MSH-NG-2034A	230V I+N ~ 50Hz*	1 1/2	2 543	31	2 985	48	3 516	73	1 800	16,6	1 050	1/4"-5/8"	< 1,5	66+24	37	4 905	MSH-CG-2034A	1 000	120	5 450
	MSH-NG-3034A	230V I+N ~ 50Hz*	1 1/2	3 091	40	3 674	63	4 364	100	1 670	17,0	1 725	1/4"-5/8"	< 3,5	74+45	38	5 143	MSH-CG-3034A	1 500	140	5 706
	MSH-NG-3038A	400V 3N ~ 50Hz	1 3/4	3 459	47	4 060	71	4 786	110	1 530	7,8	1 725	1/4"-5/8"	< 4,0	71+45	40	5 598	MSH-CG-3038A	1 500	140	6 202
	MSH-NG-4048A	400V 3N ~ 50Hz	2	4 494	66	5 350	98	6 358	155	2 610	10,5	1 725	3/8"-3/4"	< 5,5	95+45	36	6 493	MSH-CG-4048A	3 500	100	7 186
	MSH-NG-4054A	400V 3N ~ 50Hz	2 1/2	4 949	74	5 847	110	6 916	170	2 800	11,0	1 725	3/8"-3/4"	< 5,0	96+45	36	6 940	MSH-CG-4054A	3 500	100	7 650

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)	Series / Model Centrifugal	Cond. flow (m³/h)	PED (Pa) [4]	Price (€)
R-449A	BSH-NG-0018A	230V I+N ~ 50Hz	5/8	422	0,9	537	1,8	658	3,9	0,60	4,8	300	1/4"-1/2"	< 1,5	41+12	31	3 183	BSH-CG-0018A	375	80	3 437
	BSH-NG-1026A	230V I+N ~ 50Hz	3/4	559	2,1	711	4,2	900	7,3	0,84	8,7	550	1/4"-1/2"	< 2,5	55+16	31	3 394	BSH-CG-1026A	575	80	3 647
	BSH-NG-1034A	230V I+N ~ 50Hz	1 1/4	622	3,0	858	5,9	1 038	10	1,05	11,2	550	1/4"-1/2"	< 2,5	56+16	33	3 779	BSH-CG-1034A	575	80	4 056
	BSH-NG-2034A	230V I+N ~ 50Hz	1 1/4	815	4,0	1 056	8,0	1 377	14	1,18	11,5	1 050	1/4"-1/2"	< 2,5	66+24	35	4 153	BSH-CG-2034A	1 000	120	4 438
	BSH-NG-2055A	230V I+N ~ 50Hz*	1 3/4	1 175	8,0	1 675	16	2 090	28	1,70	17,5	1 050	1/4"-5/8"	< 2,5	66+24	41	4 956	BSH-CG-2055A	1 000	120	5 315
	BSH-NG-2075A	230V I+N ~ 50Hz*	2 1/2	1 620	13	2 035	21	2 435	34	2,10	25,5	1 050	1/4"-5/8"	< 3,5	66+24	44	5 740	BSH-CG-2075A	1 000	120	6 130
	BSH-NG-3075A	230V I+N ~ 50Hz*	2 1/2	1 795	15	2 410	26	3 020	46	2,30	26,3	1 725	1/4"-5/8"	< 3,5	85+45	44	6 003	BSH-CG-3075A	1 500	140	6 461
R-452A	BSH-NB-3096A	400V 3N ~ 50Hz	3 1/2	1 918	23	2 659	37	3 403	62	2,21	12,4	1 725	3/8"-3/4"	< 3,5	85+45	49	6 279	BSH-CB-3096A	1 500	140	7 085
	BSH-NB-4108A	400V 3N ~ 50Hz	4	2 823	34	3 542	55	4 300	94	3,23	15,5	1 725	3/8"-7/8"	< 5,5	107+45	47	8 318	BSH-CB-4108A	3 500	100	9 093
	BSH-NB-4136A	400V 3N ~ 50Hz	5	3 317	42	4 058	67	4 860	110	4,49	17,4	1 725	3/8"-7/8"	< 5,0	107+45	42	9 295	BSH-CB-4136A	3 500	100	10 121

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	Evaporator fans	Fan outlet
0 and 00 series	600	396	355	417	549	185	1x Ø 172	185 x 115
1 and 11 series	665	435	416	430	643	235	1x Ø 200	185 x 115
2 and 22 series	835	435	500	430	993	235	2x Ø 200	230 x 130
3 and 33 series	925	580	515	508	1 691	235	3x Ø 254	266 x 236
4 and 43 series	1 000	615	585	508	1 691	235	3x Ø 254	305 x 266
44 series	1 000	615	585	547	2 064	285	4x Ø 300	305 x 266

[1] Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
[4] Available static pressure of condensation.
* Available units with 400V 3N 50Hz power supply.

Electrical interconnections (SH-N/-C models)

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m.

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	2 x 1 mm²	3 x 1 mm²
Defrost	2 x 1,5 mm² + T	4 x 1,5 mm² + T
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	
Door heater cable	2 x 1 mm² at NT	
Cold room light*	2 x 1 mm² + T	

* Optional not included
To know electrical interconnections of each model: see technical manual.

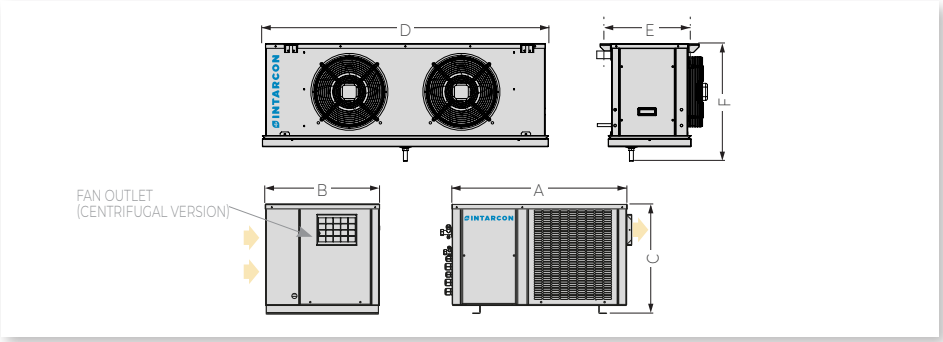
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)	Series / Model Centrifugal	Cond. flow (m³/h)	ASP (Pa) [4]	Price (€)
R-134a	MSH-QY-30068A	400V 3N ~ 50Hz	3 1/2	3 854	54	4 646	59	5 513	84	2 000	12.0	2 100	1/4"-3/4"	< 4.0	74+43	37	6 594	MSH-CQY-30068A	1 500	14	7 316
	MSH-QY-40086A	400V 3N ~ 50Hz	4	4 431	63	5 418	68	6 500	100	2 350	14.3	2 100	3/8"-7/8"	< 5.0	107+43	48	7 708	MSH-CQY-40086A	3 500	10	8 553
	MSH-QY-41108A	400V 3N ~ 50Hz	5	5 324	71	6 500	80	7 775	110	2 770	17.3	2 700	3/8"-7/8"	< 5.0	109+56	45	8 561	MSH-CQY-41108A	3 500	10	9 503
	MSH-QY-42136A	400V 3N ~ 50Hz	6 1/2	7 235	110	8 773	180	10 474	280	3 850	22.0	4 150	3/8"-1 1/8"	< 5.0	112+72	44	10 700	MSH-CQY-42136A	3 500	10	11 877
	MSH-QY-53171A	400V 3N ~ 50Hz	8	7 830	135	9 535	185	11 520	300	4 250	24.1	5 200	3/8"-1 1/8"	< 5.5	162+89	50	12 409	MSH-CQY-53171A	3 600	10	13 676
	MSH-QY-53215A	400V 3N ~ 50Hz	10	9 450	175	11 435	230	13 740	350	5 010	30.5	6 200	3/8"-1 1/8"	< 5.5	166+94	49	13 647	MSH-CQY-53215A	3 600	10	15 001
	MSH-QY-54271A	400V 3N ~ 50Hz	13	12 400	240	14 760	320	17 420	400	7 130	40.2	8 300	1/2"-1 3/8"	< 5.5	171+118	48	15 975	MSH-CQY-54271A	3 600	10	17 651
R-449A	MSH-QG-30034A	230V I+N ~ 50Hz*	1 1/2	3 409	39	4 054	62	4 797	99	1 610	16.3	2 100	1/4"-5/8"	< 3.5	74+43	38	5 660	MSH-CQG-30034A	1 500	14	6 201
	MSH-QG-30038A	400V 3N ~ 50Hz	1 3/4	3 647	46	4 301	70	5 063	110	1 790	7.1	2 100	1/4"-5/8"	< 3.5	71+43	40	5 951	MSH-CQG-30038A	1 500	14	6 512
	MSH-QG-40048A	400V 3N ~ 50Hz	2	4 752	67	5 559	99	6 554	159	2 420	9.8	2 100	3/8"-3/4"	< 4.5	95+43	36	6 960	MSH-CQG-40048A	3 500	10	7 530
	MSH-QG-40054A	400V 3N ~ 50Hz	2 1/2	5 203	76	6 060	113	7 106	178	2 610	10.3	2 100	3/8"-3/4"	< 5.0	96+43	36	7 421	MSH-CQG-40054A	3 500	10	7 999
	MSH-QG-41060A	400V 3N ~ 50Hz	3	6 049	86	7 038	128	8 260	198	3 070	11.3	2 700	1/2"-3/4"	< 5.0	97+56	36	8 043	MSH-CQG-41060A	3 500	10	8 627
	MSH-QG-41068A	400V 3N ~ 50Hz	3 1/2	6 545	113	7 581	163	8 866	253	3 440	12.3	2 700	1/2"-3/4"	< 5.0	98+56	35	9 663	MSH-CQG-41068A	3 500	10	10 274
	MSH-QG-52086A	400V 3N ~ 50Hz	4	8 056	125	9 542	185	11 320	315	3 870	15.0	4 150	1/2"-7/8"	< 5.0	135+72	48	11 506	MSH-CQG-52086A	3 600	12	12 125
	MSH-QG-52108A	400V 3N ~ 50Hz	5	9 386	160	11 011	220	12 991	375	4 900	18.0	4 150	1/2"-7/8"	< 7.0	157+72	45	11 993	MSH-CQG-52108A	3 600	12	12 612
	MSH-QG-53136A	400V 3N ~ 50Hz	6 1/2	11 894	190	13 856	260	16 173	430	6 670	21.0	6 200	1/2"-1 1/8"	< 9.0	140+94	44	12 976	MSH-CQG-53136A	3 600	12	13 592

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)	Series / Model Centrifugal	Cond. flow (m³/h)	ASP (Pa) [4]	Price (€)
	BSH-QG-30075A	230V I+N ~ 50Hz*	2 1/2	1 765	14	2 425	27	3 050	47	2 300	25.1	2 100	1/4"-5/8"	< 3.5	85+43	44	6 299	BSH-CQG-30075A	1 500	14	6 652
R-452A	BSH-QB-30096A	400V 3N ~ 50Hz	3 1/2	2 223	22	2 869	36	3 491	61	2 390	11.2	2 100	3/8"-3/4"	< 3.5	85+43	49	7 003	BSH-CQB-30096A	1 500	14	7 648
	BSH-QB-41108A	400V 3N ~ 50Hz	4	2 658	34	3 626	58	4 688	99	2 960	14.4	2 700	3/8"-7/8"	< 5.0	107+56	47	9 125	BSH-CQB-41108A	3 500	10	9 755
	BSH-QB-42136A	400V 3N ~ 50Hz	5	3 915	51	5 021	85	5 999	144	4 290	17.3	4 150	3/8"-7/8"	< 5.0	107+72	42	10 891	BSH-CQB-42136A	3 500	10	11 548
	BSH-QB-53215A	400V 3N ~ 50Hz	7 1/2	5 428	80	7 186	120	8 842	200	6 280	25.0	5 200	1/2"-1 1/8"	< 7.0	166+89	49	14 251	BSH-CQB-53215A	3 600	12	14 908
	BSH-QB-53271A	400V 3N ~ 50Hz	10	6 972	110	8 858	150	10 712	220	7 950	30.0	6 200	1/2"-1 1/8"	< 7.5	166+94	49	15 015	BSH-CQB-53271A	3 600	12	15 670

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	Evaporator fans	Fan outlet
30 series	925	580	515	880	455	581	1x Ø 350	266 x 236
40 series	1 000	615	585	880	455	581	1x Ø 350	305 x 266
41 series	1 000	615	585	1 230	455	581	1x Ø 350	305 x 266
42 series	1 000	615	585	1 530	455	581	2x Ø 350	305 x 266
52 series	1 289	757	657	1 530	455	581	2x Ø 350	305 x 266
MSH-QY-53171A BSH-QG-53215A	1 289	755	657	1 930	455	581	2x Ø 350	305 x 266
53 series	1 289	755	657	1 930	455	581	3x Ø 350	305 x 266
54 series	1 289	755	657	2 430	455	581	4x Ø 350	305 x 266

[1] Nominal performances refer to operation with cold room temperatures of 12 °C (HT) and ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
[4] Available static pressure of condensation.
* Available units with 400V 3N 50Hz power supply.

Electrical interconnections for 10 m cable

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	2 x 1 mm²	3 x 1 mm²
Defrost	2 x 1,5 mm² + T	4 x 1,5 mm² + T
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	
Door heater cable	2 x 1 mm² at NT	
Cold room light*	2 x 1 mm² + T	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

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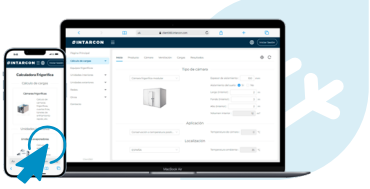
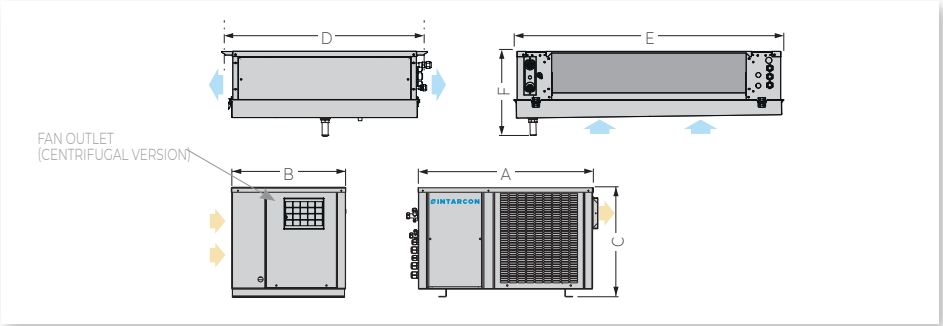


230V I+N ~ 50Hz / 400V 3N ~ 50Hz | High temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model Axial	Power supply	Compressor (CV)	Cooling capacity / Cold room volume, according to cold room temperature [1] 9 °C W	9 °C m³	12 °C W	12 °C m³	15 °C W	15 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)	Series / Model Centrifugal	Cond. flow (m³/h)	ASP (Pa) [4]	Price (€)
R-134a	**ASH-DY-11015A**	230V I+N ~ 50Hz	1/2	1 555	14	**1 733**	**19**	1 928	26	750	5,9	1 100	1/4"-1/2"	< 2,0	48+32	32	**4 006**	**ASH-CDY-11015A**	575	80	**4 442**
	ASH-DY-11026A	230V I+N ~ 50Hz	3/4	1 985	18	**2 221**	**24**	2 462	33	990	9,6	1 100	1/4"-1/2"	< 2,0	51+32	30	**4 330**	**ASH-CDY-11026A**	575	80	**4 804**
	ASH-DY-11033A	230V I+N ~ 50Hz	1	2 378	22	**2 636**	**29**	2 903	40	1 370	9,8	1 100	1/4"-5/8"	< 2,0	51+32	33	**4 859**	**ASH-CDY-11033A**	575	80	**5 394**
	ASH-DY-22033A	230V I+N ~ 50Hz	1	2 961	28	**3 329**	**38**	3 717	51	1 300	10,7	1 800	1/4"-5/8"	< 2,5	54+45	34	**5 335**	**ASH-CDY-22033A**	1 000	120	**5 918**
	ASH-DY-22053A	230V I+N ~ 50Hz*	1 1/2	3 738	35	**4 169**	**48**	4 625	63	2 040	13,3	1 800	3/8"-3/4"	< 2,5	55+45	38	**6 207**	**ASH-CDY-22053A**	1 000	120	**6 890**
	ASH-DY-33053A	230V I+N ~ 50Hz*	1 1/2	4 211	42	**4 709**	**56**	5 234	76	2 050	13,6	3 150	3/8"-3/4"	< 4,0	74+65	39	**6 571**	**ASH-CDY-33053A**	1 500	140	**7 298**
	ASH-DY-33074A	230V I+N ~ 50Hz*	2	5 502	58	**6 148**	**77**	6 830	104	2 740	17,6	3 150	3/8"-3/4"	< 4,0	71+65	44	**7 821**	**ASH-CDY-33074A**	1 500	140	**8 676**
	ASH-DY-43086A	400V 3N ~ 50Hz	4	7 124	74	**8 001**	**98**	8 915	131	3 160	15,4	3 150	3/8"-7/8"	< 6,5	107+65	48	**8 911**	**ASH-CDY-43086A**	3 500	100	**9 893**
	ASH-DY-43108A	400V 3N ~ 50Hz	5	8 216	85	**9 177**	**111**	10 206	148	3 760	18,4	3 150	3/8"-7/8"	< 6,0	109+65	45	**9 781**	**ASH-CDY-43108A**	3 500	100	**10 855**
	ASH-DY-44108A	400V 3N ~ 50Hz	5	8 873	92	**9 954**	**121**	11 062	160	4 080	18,4	5 700	3/8"-7/8"	< 6,0	112+70	45	**10 719**	**ASH-CDY-44108A**	3 500	100	**11 896**
	ASH-DY-44136A	400V 3N ~ 50Hz	6 1/2	10 988	114	**12 206**	**148**	13 498	195	4 570	22,4	5 700	1/2"-1 1/8"	< 6,0	112+70	44	**11 790**	**ASH-CDY-44136A**	3 500	100	**13 087**
R-449A	**ASH-DG-1010A**	230V I+N ~ 50Hz	3/8	1 237	10	**1 341**	**14**	1 455	19	770	5,2	1 100	1/4"-3/8"	< 2,5	42+32	34	**3 672**	**ASH-CDG-1010A**	575	80	**4 147**
	ASH-DG-1012A	230V I+N ~ 50Hz	1/2	1 419	12	**1 535**	**16**	1 664	22	820	6,2	1 100	1/4"-3/8"	< 2,5	43+32	34	**3 828**	**ASH-CDG-1012A**	575	80	**4 325**
	ASH-DG-2014A	230V I+N ~ 50Hz	1/2	1 829	16	**1 965**	**22**	2 109	29	950	7,4	1 100	1/4"-1/2"	< 3,0	45+32	35	**3 985**	**ASH-CDG-2014A**	1 000	120	**4 498**
	ASH-DG-2016A	230V I+N ~ 50Hz	5/8	2 014	18	**2 169**	**24**	2 338	33	1 030	8,3	1 100	1/4"-1/2"	< 3,0	54+32	35	**4 141**	**ASH-CDG-2016A**	1 000	120	**4 663**
	ASH-DG-2018A	230V I+N ~ 50Hz	3/4	2 309	22	**2 481**	**28**	2 675	38	1 230	9,6	1 100	1/4"-1/2"	< 3,0	55+32	35	**4 375**	**ASH-CDG-2018A**	1 000	120	**4 905**
	ASH-DG-2024A	230V I+N ~ 50Hz	1	2 988	27	**3 228**	**36**	3 480	47	1 610	11,8	1 800	3/8"-5/8"	< 3,0	55+45	35	**4 920**	**ASH-CDG-2024A**	1 000	120	**5 468**
	ASH-DG-3026A	230V I+N ~ 50Hz*	1 1/4	3 434	33	**3 709**	**42**	3 996	57	1 760	11,7	1 800	3/8"-5/8"	< 3,5	74+45	37	**5 277**	**ASH-CDG-3026A**	1 500	140	**5 918**
	ASH-DG-3034A	230V I+N ~ 50Hz*	1 1/2	4 376	41	**4 692**	**54**	5 048	72	2 260	16,5	1 800	3/8"-5/8"	< 4,0	74+45	38	**5 935**	**ASH-CDG-3034A**	1 850	140	**6 589**
	ASH-DG-3038A	400V 3N ~ 50Hz	1 3/4	5 011	47	**5 356**	**62**	5 733	85	2 150	7,3	1 800	3/8"-5/8"	< 4,0	71+45	40	**6 880**	**ASH-CDG-3038A**	1 850	140	**7 576**
	ASH-DG-4048A	400V 3N ~ 50Hz	2	6 667	66	**7 151**	**86**	7 673	115	2 980	10,2	3 150	1/2"-3/4"	< 5,5	95+65	36	**7 586**	**ASH-CDG-4048A**	3 500	100	**8 303**
	ASH-DG-4054A	400V 3N ~ 50Hz	2 1/2	7 362	73	**7 875**	**95**	8 446	125	3 230	10,7	3 150	1/2"-3/4"	< 6,0	96+65	36	**8 050**	**ASH-CDG-4054A**	3 500	100	**8 768**
	ASH-DG-4060A	400V 3N ~ 50Hz	3	8 369	82	**8 974**	**105**	9 614	140	3 960	12,2	3 800	1/2"-7/8"	< 6,0	97+65	36	**8 830**	**ASH-CDG-4060A**	3 500	100	**9 550**
	ASH-DG-4068A	400V 3N ~ 50Hz	3 1/2	9 113	89	**9 753**	**115**	10 442	150	4 470	13,2	3 800	1/2"-7/8"	< 6,0	98+65	35	**9 679**	**ASH-CDG-4068A**	3 500	10	**10 398**

DIMENSIONS



	Dimensions (mm)	A	B	C	D	E	F	Evaporator fans	Fan outlet
R-134a	11	665	435	416	798	736	312	1x Ø 360	185 x 115
	22	835	435	500	798	1 086	312	2x Ø 360	230 x 130
	33	925	580	515	798	1 786	312	3x Ø 360	305 x 266
	43	1 000	615	585	798	1 786	312	3x Ø 360	305 x 266
	44	1 000	615	585	888	2 186	362	3x Ø 450	305 x 266
R-449A	1 series	665	435	416	798	736	312	1x Ø 360	185 x 115
	ASH-DG 2014A up to 2018A	835	435	500	798	736	312	1x Ø 360	230 x 130
	ASH-DG 2024A	835	435	500	798	1 086	312	2x Ø 360	230 x 130
	3 series	925	580	515	798	1 086	312	2x Ø 360	266 x 236
	4 series	1 000	615	585	798	1 786	312	3x Ø 360	305 x 266

[1] Nominal performances refer to operation with cold room temperatures of 12 °C (HT) and ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
[4] Available static pressure of condensation.
* Available units with 400V 3N 50Hz power supply.

Electrical interconnections for 10 m cable

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	3 x 1 mm² + T	
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	
Door heater cable	2 x 1 mm² at NT	
Cold room light*	2 x 1 mm² + T	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

Exhaust duct

Recommended size for 20 m long steel, PVC or fibreglass ducts (each elbow at 90° equals 5 m in length). For flexible or semi-flexible ducts use a larger size.

0 series	200 x 150 mm or Ø 150 mm
1 series	200 x 200 mm or Ø 150 mm
2 series	250 x 150 mm or Ø 200 mm
3 series	200 x 300 mm or Ø 250 mm
4 and 5 series	350 x 400 mm or Ø 360 mm

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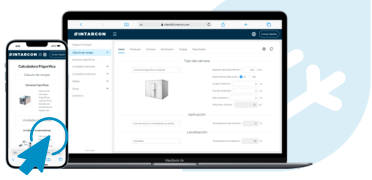
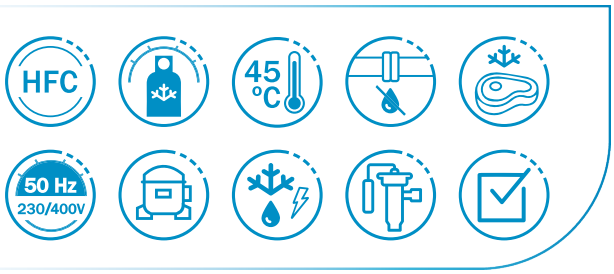


System for meat preservation and maturation



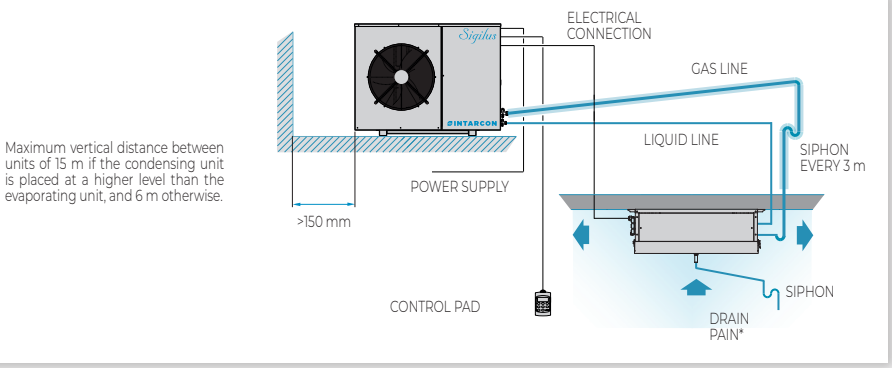
Split refrigeration systems for positive temperature applications, featuring a quasi-static evaporating unit with double air flow, and an axial low-noise or centrifugal condensing unit.

FEATURES

Quasi-static evaporating unit with double air flow and axial motor fans at very low speed.	■
High and low pressure switches.	■
Built-in solenoid valve.	■
Built-in thermostatic expansion valve.	■
Electrical heater defrost.	■
Drain pan.	■
Flare-type connections (up to 1/2"-3/4") and service valves.	■
MCB protection.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Multifunctional electronic control with remote keyboard and digital condensation control.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Proportional control of condensing pressure through fan speed variation (already included in 2/23 series and above).	□ + 317 €
Coil protection grille.	□ + 117 €
Built-in oil separator.	□ + 745 €
Condenser coil polyurethane anti-corrosion treatment.	□ + 4 %
Control for maturation of meat with humidification and dehumidification functions. VTIPG touch screen display.	By request

■ As standard □ Optional

INSTALLATION SCHEME



Meat preservation

Quasi-static split systems are specifically recommended for unpacked meat preservation in cold rooms at temperature around 0 °C.

Double airflow evaporating units feature fans operating at a minimum speed to emulate the natural air convection inside the cold room, just as in a static evaporating unit.

Minimum air speed prevents moisture loss from the stored goods and keeps the correct level of humidity inside the cold room to prevent bacterial growth on the meet surface.

Meat maturation (optional)

Maturation of meat requires the control of the relative humidity of the cold room in a certain range.

Units for maturation of meat, are configured for cold rooms in the environment of 0 °C and in the range of 40 % to 95 % of relative humidity.

These unit incorporate an advanced electronic regulation to control of the temperature and humidity inside the cold room, with dehumidification and humidification and functions with steam humidification of 3 kg / h capacity, consisting of: steam lances integrated in the evaporator unit, a submerged electrode generating cylinder with feed and water purge valves, and electronic relative humidity controller in the cold room.

Crankcase heater (optional)

As standard on MSF and optional on MSH series. Its inclusion in outdoor units is recommended.

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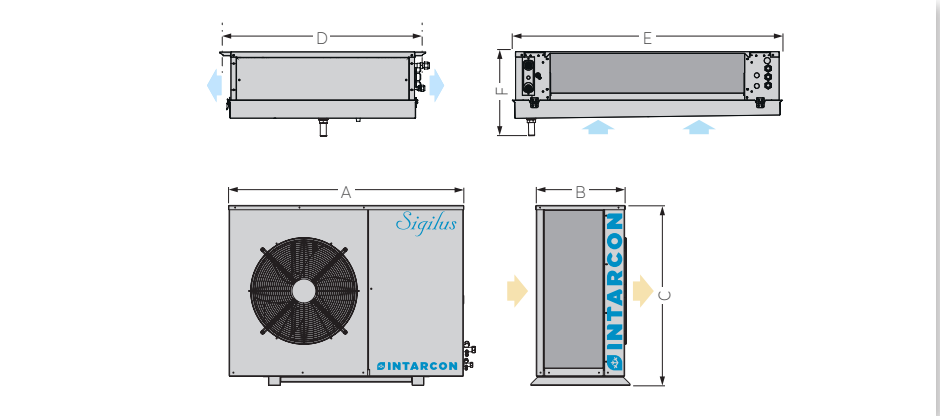
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature - Meat preservation and maturation | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (CV)	Cooling capacity / Cold room volume, according to cold room temperature [1] -5 °C W	-5 °C m³	0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-134a	**MSF-UY-11026A**	230V I+N ~ 50Hz	3/4	1 145	7,6	**1 449**	**15**	1 785	24	2 153	41	830	9.4	600	1 700	1/4"-1/2"	< 2.0	65+32	34	**4 700**
	MSF-UY-12033A	230V I+N ~ 50Hz	1	1 428	12	**1 764**	**20**	2 147	34	2 562	53	960	10.0	700	1 700	1/4"-5/8"	< 3.0	67+45	34	**5 601**
	MSF-UY-13053A	230V I+N ~ 50Hz*	1 1/2	2 100	22	**2 657**	**40**	3 255	56	3 938	86	1 500	12.6	1 325	1 700	1/4"-3/4"	< 3.5	77+65	35	**6 999**
	MSF-UY-13074A	230V I+N ~ 50Hz*	2	2 741	30	**3 434**	**48**	4 190	74	5 009	120	1 860	16.9	1 325	1 700	1/4"-3/4"	< 4.5	79+65	37	**7 999**
	MSF-UY-23086A	400V 3N ~ 50Hz	4	3 308	40	**4 158**	**62**	5 114	99	6 132	154	2 080	13.4	1 325	3 700	3/8"-7/8"	< 5.5	96+65	38	**8 745**
	MSF-UY-24108A	400V 3N ~ 50Hz	5	4 431	54	**5 576**	**87**	6 825	134	8 243	209	2 740	16.9	2 600	3 700	3/8"-7/8"	< 7.5	98+65	38	**9 990**
	MSF-UY-24136A	400V 3N ~ 50Hz	6 1/2	5 444	72	**6 815**	**108**	8 306	162	10 038	268	3 440	20.9	2 600	3 700	3/8"-1 1/8"	< 7.5	101+65	34	**11 216**
	MSF-UY-34171A	400V 3N ~ 50Hz	8	11 151	153	**7 539**	**123**	9 293	181	11 146	299	4 060	23.9	2 600	4 000	3/8"-1 1/8"	< 8.0	140+65	40	**13 289**
R-449A	**MSF-UG-1016A**	230V I+N ~ 50Hz	5/8	1 215	9,5	**1 483**	**15**	1 772	25	2 101	40	890	7.5	600	1 700	1/4"-1/2"	< 2.5	67+32	34	**4 471**
	MSF-UG-1018A	230V I+N ~ 50Hz	3/4	1 421	12	**1 720**	**19**	2 050	30	2 410	48	1 030	8.8	600	1 700	1/4"-1/2"	< 2.5	68+32	34	**5 139**
	MSF-UG-1024A	230V I+N ~ 50Hz	1	1 648	15	**1 998**	**24**	2 390	37	2 812	59	1 190	11.0	700	1 700	3/8"-5/8"	< 3.5	82+43	34	**5 517**
	MSF-UG-1034A	230V I+N ~ 50Hz*	1 1/2	2 235	23	**2 699**	**35**	3 193	54	3 739	84	1 840	16.0	700	1 700	3/8"-5/8"	< 3.5	83+43	35	**6 289**
	MSF-UG-1038A	400V 3N ~ 50Hz	1 3/4	2 833	31	**3 451**	**47**	4 130	72	4 882	115	1 850	7.4	1 325	3 200	3/8"-5/8"	< 4.5	82+63	29	**7 360**
	MSF-UG-2054A	400V 3N ~ 50Hz	2 1/2	3 784	47	**4 600**	**70**	5 447	105	6 426	160	2 380	9.4	1 325	3 700	3/8"-3/4"	< 5.0	85+63	26	**8 151**
	MSF-UG-2068A	400V 3N ~ 50Hz	3 1/2	4 825	64	**5 794**	**93**	6 834	135	8 017	205	3 350	11.4	1 325	3 700	1/2"-3/4"	< 7.0	88+63	25	**10 077**
	MSF-UG-3086A	400V 3N ~ 50Hz	4	6 027	83	**7 257**	**120**	8 579	175	10 060	270	4 230	13.9	2 600	4 000	1/2"-7/8"	< 7.0	115+66	38	**11 939**

DIMENSIONS



	Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
R-134a	11 series	1 030	380	577	798	736	312	1x Ø 360
	12 series	1 030	380	577	798	1 086	312	1x Ø 360
	13 series	1 030	380	577	798	1 786	312	2x Ø 360
	23 series	1 080	416	827	798	1 786	312	2x Ø 360
	24 series	1 080	416	827	888	2 186	362	2x Ø 450
	34 series	1 150	487	1 097	888	2 186	362	2x Ø 450
R-449A	MSF-UG-1016A and 1018A	1 030	380	577	798	736	312	1x Ø 360
	MSF-UG-1024A and 1034A	1 030	380	577	798	1 086	312	1x Ø 360
	MSF-UG-1038A	1 030	380	577	798	1 786	312	2x Ø 360
	MSF-UG-2054A and 2068A	1 080	416	827	798	1 786	312	2x Ø 360
	MSF-UG-3086A	1 150	487	1 097	888	2 186	362	2x Ø 450

[1] Nominal performances refer to operation with cold room temperatures of 0 °C and ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 400V 3N 50Hz power supply.

Centrifugal version

Refrigerant	Series / Model	HP	Cooling capacity 0 °C W	0 °C m³	Price (€)
R-134a	**MSH-CUY-11026A**	3/4	**1 281**	**12**	**4 415**
	MSH-CUY-11033A	1	**1 517**	**15**	**5 370**
	MSH-CUY-22033A	1	**1 811**	**22**	**5 735**
	MSH-CUY-22053A	1 1/2	**2 174**	**28**	**6 325**
	MSH-CUY-33053A	1 1/2	**2 657**	**35**	**6 932**
	MSH-CUY-33074A	2	**3 402**	**47**	**7 760**
	MSH-CUY-43086A	4	**4 153**	**70**	**9 332**
	MSH-CUY-43108A	5	**5 219**	**84**	**10 195**
	MSH-CUY-44108A	5	**5 555**	**89**	**10 977**
	MSH-CUY-44136A	6 1/2	**6 773**	**108**	**13 609**
R-449A	**MSH-CUG-1016A**	5/8	**1 349**	**13**	**4 201**
	MSH-CUG-1018A	3/4	**1 545**	**16**	**5 108**
	MSH-CUG-2024A	1	**1 978**	**23**	**5 455**
	MSH-CUG-2034A	1 1/2	**2 627**	**34**	**6 229**
	MSH-CUG-3038A	1 3/4	**3 265**	**44**	**7 145**
	MSH-CUG-4054A	2 1/4	**4 590**	**69**	**8 383**
	MSH-CUG-4068A	3 1/2	**5 783**	**93**	**9 858**

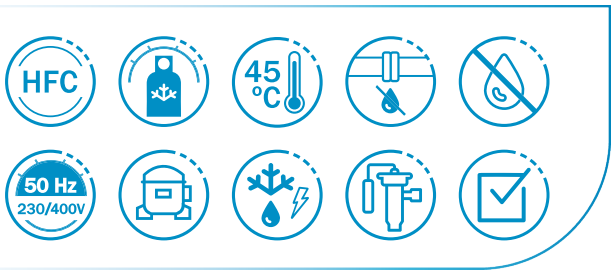
Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m (hoses not included):

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	2 x 1 mm²	3 x 1 mm²
Defrost	2 x 1,5 mm² + T	4 x 1,5 mm² + T
Control pad	2 x 1 mm²	
Switch door*	2 x 1 mm²	
Cold room light*	2 x 1 mm² + T	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

High humidity



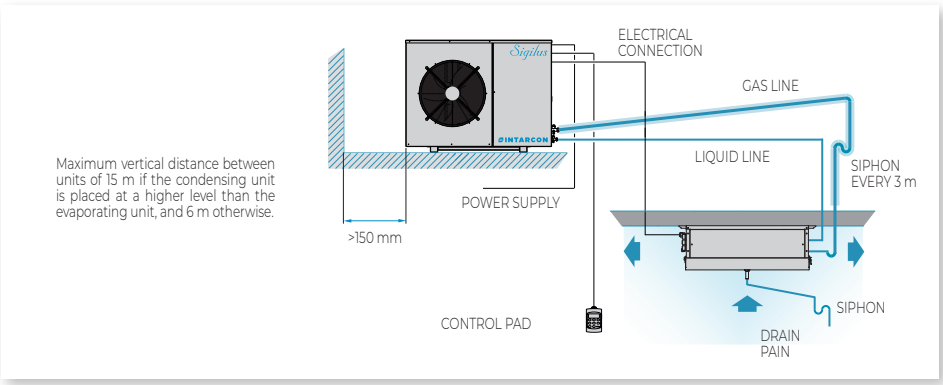
Split refrigeration systems for high relative humidity applications in a positive temperature range, featuring an evaporating unit with double air flow, and a low-noise or centrifugal condensing unit.

FEATURES

Oversized double air flow evaporating unit designed for relative humidity control between 60 % and 95 %*.	■
High and low pressure switches.	■
Evaporator built-in solenoid and thermostatic expansion valves.	■
Air defrost.	■
Drain pan.	■
Flare-type connections (up to 1/2"-3/4") with service valves.	■
MCB protection.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Multifunction electronic control with temperature and humidity control and remote control.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Proportional control of condensing pressure through fan speed variation (already included in 2/22 series and above).	□ + 317 €
Coil protection grille.	□ + 117 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %
Built-in active humidification kit.	By request
Dehumidification and heating kit.	By request

■ As standard □ Optional

INSTALLATION SCHEME



Conservation at controlled relative humidity

The preservation of certain products, such as fruits, vegetables or cut flowers, requires control of the relative humidity in the cold room within a certain range.
These unit adjusted for high relative humidity are especially suitable for fruit and vegetable products preservation cold room.
The evaporators have a double air discharge through oversized coils to obtain up to a high level of relative humidity inside the chamber at around 95 %, avoiding loss of humidity and weight of the product.

Electronic temperature and humidity control

The unit incorporates an advanced electronic regulation for the control of the temperature and humidity inside the cold room.

- Multifunction remote digital control with temperature and relative humidity display.
- Relative humidity control in the regulation range from 60 % to 95 %*.
- Optionally, active humidification kits with steam lances and dehumidification and stove kits are integrated.

* The humidity regulation in the cold room is carried out passively, acting on the evaporator flow, without water vapour. The actual range of humidity regulation depends largely on the conditions of the cold room, absolute outside humidity and type of product.

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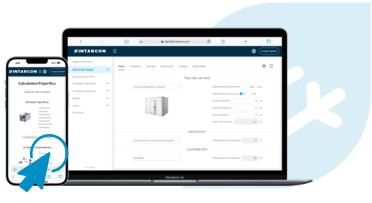
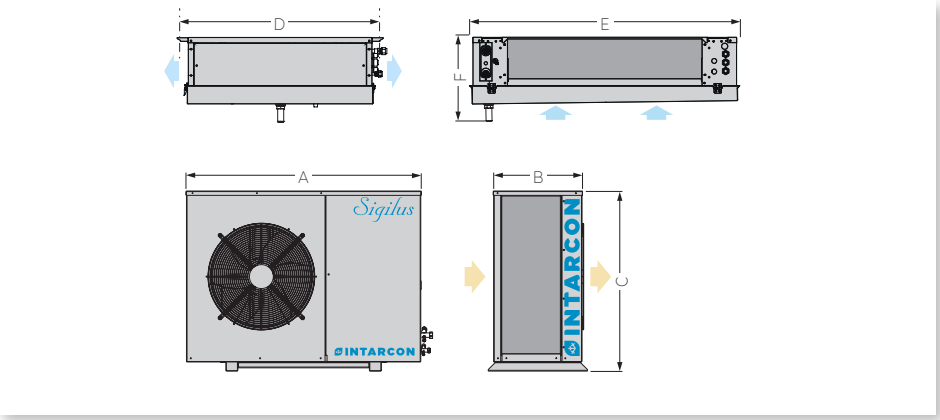


230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature - Humidity control | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity / Cold room volume, according to cold room temperature [1] 5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [2]	Weight (kg)	SPL dB(A) [3]	Price (€)
R-134a	**HSF-DY-12015A**	230V I+N ~ 50Hz	1/2	**1 544**	**22**	1 906	38	740	6.5	1 800	1 700	1/4"-1/2"	< 2.0	57+32	34	**4 797**
	HSF-DY-12026A	230V I+N ~ 50Hz	3/4	**2 116**	**32**	2 594	53	1 060	10.2	1 800	1 700	1/4"-1/2"	< 2.0	65+32	34	**5 182**
	HSF-DY-13033A	230V I+N ~ 50Hz	1	**2 620**	**43**	3 192	73	1 300	11.0	3 150	1 700	1/4"-1/2"	< 2.5	67+45	34	**6 374**
	HSF-DY-13053A	230V I+N ~ 50Hz*	1 1/2	**3 486**	**64**	4 237	103	1 900	13.6	3 150	1 700	1/4"-5/8"	< 3.0	77+65	35	**7 588**
	HSF-DY-14074A	230V I+N ~ 50Hz*	2	**4 977**	**91**	6 090	148	2 570	17.7	5 700	1 700	1/4"-3/4"	< 5.0	79+65	37	**8 916**
	HSF-DY-24086A	400V 3N ~ 50Hz	4	**6 773**	**134**	8 311	217	2 870	14.5	5 700	3 700	3/8"-7/8"	< 6.0	96+65	38	**10 057**
	HSF-DY-24108A	400V 3N ~ 50Hz	5	**7 865**	**158**	9 713	263	3 400	17.5	5 700	3 700	3/8"-7/8"	< 6.0	98+65	35	**11 019**
	HSF-DY-24136A	400V 3N ~ 50Hz	6 1/2	**9 870**	**202**	11 960	331	4 440	21.5	5 700	3 700	3/8"-1 1/8"	< 6.5	101+70	34	**14 479**
R-449A	**HSF-DG-1014A**	230V I+N ~ 50Hz	1/2	**1 801**	**25**	2 112	41	850	6.6	1 100	1 700	1/4"-1/2"	< 2.0	59+32	34	**4 625**
	HSF-DG-1016A	230V I+N ~ 50Hz	5/8	**2 015**	**29**	2 378	47	930	7.5	1 100	1 700	1/4"-1/2"	< 2.0	67+32	34	**4 995**
	HSF-DG-1018A	230V I+N ~ 50Hz	3/4	**2 582**	**38**	3 036	62	1 220	9.1	1 800	1 700	1/4"-1/2"	< 2.0	68+45	34	**5 945**
	HSF-DG-1024A	230V I+N ~ 50Hz	1	**2 945**	**46**	3 478	75	1 400	11.3	1 800	1 700	3/8"-5/8"	< 3.5	82+45	34	**6 348**
	HSF-DG-1026A	230V I+N ~ 50Hz*	1 1/4	**3 289**	**54**	3 849	86	1 530	16.3	1 800	1 700	3/8"-5/8"	< 3.5	83+45	34	**6 653**
	HSF-DG-1034A	230V I+N ~ 50Hz*	1 1/2	**3 734**	**64**	4 361	100	2 090	16.6	1 800	1 700	3/8"-5/8"	< 3.5	83+45	35	**7 170**
	HSF-DG-1038A	400V 3N ~ 50Hz	1 3/4	**4 905**	**85**	5 760	135	2 020	7.8	3 150	3 200	3/8"-5/8"	< 4.0	82+65	29	**8 319**
	HSF-DG-2048A	400V 3N ~ 50Hz	2	**6 170**	**115**	7 244	175	2 530	7.9	3 150	3 700	3/8"-3/4"	< 5.0	84+65	26	**8 846**
	HSF-DG-2054A	400V 3N ~ 50Hz	2 1/2	**6 852**	**130**	7 997	200	2 770	9.8	3 150	3 700	3/8"-3/4"	< 5.0	85+65	26	**9 161**
	HSF-DG-2060A	400V 3N ~ 50Hz	3	**7 844**	**150**	9 122	230	3 280	11.3	3 800	3 700	3/8"-3/4"	< 5.0	88+65	26	**10 036**
	HSF-DG-2068A	400V 3N ~ 50Hz	3 1/2	**8 576**	**165**	9 934	260	3 770	12.3	3 800	3 700	1/2"-3/4"	< 5.0	88+65	25	**11 210**
	HSF-DG-3086A	400V 3N ~ 50Hz	4	**10 308**	**200**	12 124	320	4 740	14.5	5 700	4 000	1/2"-7/8"	< 9.0	115+70	38	**13 187**

DIMENSIONS



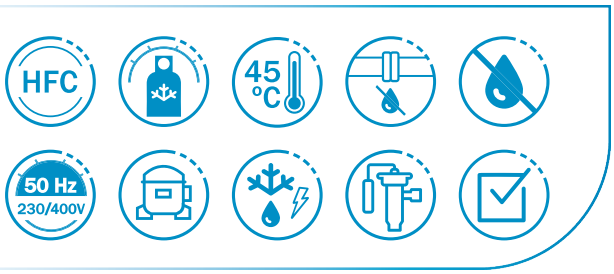
	Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
R-134a	12 series	1 030	380	577	798	1 086	312	2x Ø 360
	13 series	1 030	380	577	798	1 786	312	3x Ø 360
	14 series	1 030	380	577	888	2 186	312	3x Ø 450
	24 series	1 080	416	827	888	2 186	362	3x Ø 450
R-449A	HSF-DG-1014A and 1016A	1 030	380	577	798	736	312	1x Ø 360
	HSF-DG-1018A - 1034A	1 030	380	577	798	1 086	312	2x Ø 360
	HSF-DG-1038A	1 030	380	577	798	1 786	312	3x Ø 360
	HSF-DG-2048A - 2068A	1 080	416	827	798	1 786	312	3x Ø 360
	HSF-DG-3086A	1 150	487	1 097	888	2 186	362	3x Ø 450

[1] Nominal performances refer to operation with cold room temperatures of 5 °C, with a relative humidity cold room of 95 %, and ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 12).
[2] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[3] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 400V 3N 50Hz power supply.

Centrifugal version

Refrigerant	Series / Model	HP	Cooling capacity 0 °C W	0 °C m³	Price (€)
R-134a	**HSH-CDY-12015A**	1/2	**1 415**	**21**	**4 575**
	HSH-CDY-12026A	3/4	**1 859**	**28**	**5 255**
	HSH-CDY-12033A	1	**2 242**	**32**	**5 772**
	HSH-CDY-23033A	1	**2 746**	**45**	**6 149**
	HSH-CDY-23053A	1 1/2	**3 507**	**64**	**6 771**
	HSH-CDY-23074A	2	**4 526**	**82**	**8 418**
	HSH-CDY-34074A	2	**5 140**	**93**	**8 851**
	HSH-CDY-44086A	4	**6 741**	**134**	**10 047**
	HSH-CDY-44108A	5	**7 817**	**158**	**10 935**
	HSH-CDY-44136A	6 1/2	**9 791**	**200**	**13 558**
R-449A	**HSH-CDG-1014A**	1/2	**1 399**	**20**	**4 412**
	HSH-CDG-1016A	5/8	**1 608**	**22**	**4 571**
	HSH-CDG-2018A	3/4	**2 510**	**38**	**5 568**
	HSH-CDG-2024A	1	**2 902**	**46**	**5 931**
	HSH-CDG-2026A	1 1/4	**3 242**	**54**	**6 168**
	HSH-CDG-3034A	1 1/2	**4 056**	**71**	**6 736**
	HSH-CDG-3038A	1 3/4	**4 360**	**77**	**7 857**
	HSH-CDG-3048A	2	**6 160**	**116**	**8 666**
	HSH-CDG-4054A	2 1/4	**6 833**	**132**	**9 151**
	HSH-CDG-4060A	3	**7 652**	**149**	**9 960**
	HSH-CDG-4068A	3 1/2	**8 371**	**164**	**10 691**

Wine, cheese and mini drying rooms units

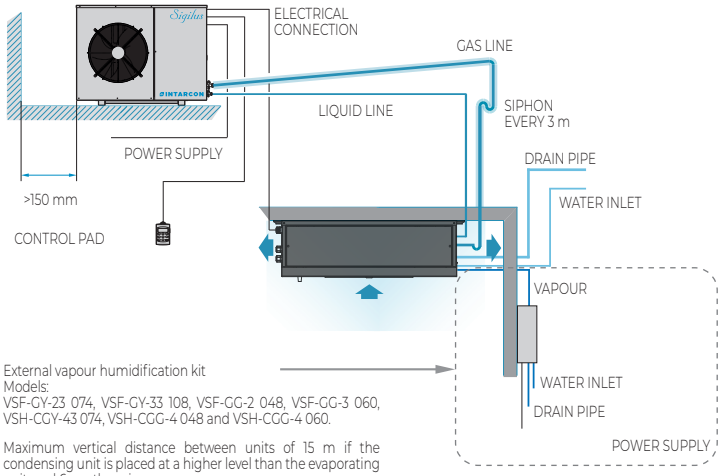


Wine cellar refrigeration split systems with low-noise axial or centrifugal condensing unit and double-flow evaporating unit with heating function, humidification / dehumidification system and condensed water pump, and compact ceiling construction with axial or centrifugal condensation.

APPLICATIONS

- Bottled wine preservation.
- Refrigeration at high temperature with humidity control.
- Preservation of wine in barrels.
- Cheese curing.
- Mini drying rooms.
- Tobacco preservation.

INSTALLATION SCHEME

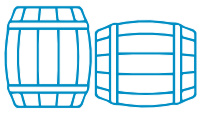


Conservation of bottled wine

Bottled wine requires temperature and humidity controlled conditions that optimally conserve the product while avoiding both cork drying and label mouldiness.
The wine treatment unit guarantees optimal conditions for the preservation of bottled wine.

Wine conservation in barrel

In the conservation of wine in barrels, the relative humidity inside the cellar is of great importance, which must be adjusted so that there is no transfer of water vapour between the environment of the cellar and the interior of the barrel, avoiding thus wine wastage or water absorption by the content.



External vapour humidification kit

Vapour humidification with 3 kg/h capacity, consisting of: vapour lances integrated in the evaporator unit, a submerged electrode generating cylinder with feed valves and water purge valves.

Electrical interconnection

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm²	
Manoeuvre	10 x 1 mm²	
Heating resistance	2 x 2,5 mm² + T	4 x 1,5 mm² + T
Control pad	2 x 1 mm²	
Humidifier	2 x 1 mm²	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

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FEATURES

Double-flow low-profile evaporating unit with heaters and active humidification / dehumidification system; and evaporation anti-corrosion coated coil.	■
Air defrost; Air filter.	■
Evaporator built-in solenoid and thermostatic expansion valves.	■
Drain pan and condensed water pump.	■
Flare-type cooling connections (up to 1/2"-3/4) and service valves.	■
Liquid receiver and refrigerant pre-charge for 10 m piping.	■
Proportional condensation control (VSF 1/2/3 and VSH 4/43 series) and all / nothing condensation control (VSF 0, VSH 1, 2/22 and 3/33 series).	■
Multifunction electronic control of temperature / humidity, with remote control.	■
MCB protection.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Proportional control of condensing pressure through fan speed variation (already included in VSF 1/2/3 series and VSH 4/43 series).	□ + 317 €
Built-in oil separator.	□ + 745 €
Condenser coil anti-corrosion treatment.	□ + 4 %
Coil protection grille.	□ + 117 €

■ As standard □ Optional

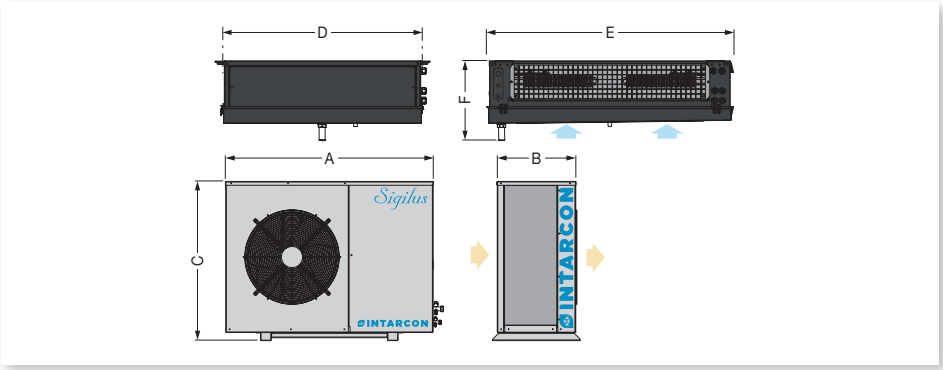
VSF-G series

VSH-CG series

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature - Wine cellar | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cellar volume (m³) Without insulation	Cellar volume (m³) Insulation	Cooling capacity 15 °C 70 % HR (W) [1]	Heating capacity (W)	Input power (W) [2]	Input power (W) [3]	Max. current (A)	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) [4]	Weight (kg)	SPL dB(A) [5]	Price (€)
R-134a	**VSF-GY-00010A**	230V I+N ~ 50Hz	3/8	11	37	**1 242**	1 000	1 520	520	8,8	500	350	1/4"-3/8"	< 1,5	46+30	28	**6 617**
	VSF-GY-10015A	230V I+N ~ 50Hz	1/2	20	53	**1 820**	1 000	1 670	670	10,1	500	1 700	1/4"-1/2"	< 2,0	57+30	34	**7 542**
	VSF-GY-11033A	230V I+N ~ 50Hz	1	47	100	**3 281**	1 500	2 760	1 260	16,3	1 100	1 700	1/4"-5/8"	< 2,5	67+35	34	**9 078**
	VSF-GY-12053A	230V I+N ~ 50Hz*	1 1/2	74	168	**4 683**	3 000	4 930	1 930	26,1	1 800	3 200	3/8"-3/4"	< 3,5	77+47	35	**11 241**
	VSF-GY-23074A[K]	230V I+N ~ 50Hz*	2	149	297	**7 497**	6 000	8 600	2 600	43,7	3 150	3 700	3/8"-3/4"	< 5,5	79+75	34	**14 825**
	VSF-GY-33108A[K]	400V 3N ~ 50Hz	5	224	444	**9 944**	6 000	9 500	3 500	26,1	3 150	4 000	3/8"-7/8"	< 6,0	98+75	35	**17 359**
R-449A	**VSF-GG-0008A**	230V I+N ~ 50Hz	1/3	10	35	**1 227**	1 000	1 160	480	8,4	500	350	1/4"-3/8"	< 1,5	48+30	28	**6 237**
	VSF-GG-1014A	230V I+N ~ 50Hz	1/2	24	60	**2 134**	1 500	2 550	1 050	13,5	1 100	1 700	1/4"-1/2"	< 2,5	59+35	34	**7 107**
	VSF-GG-1024A	230V I+N ~ 50Hz	1	47	100	**3 388**	3 000	4 810	1 810	24,9	1 800	1 700	3/8"-5/8"	< 4,0	82+47	34	**8 556**
	VSF-GG-1034A	230V I+N ~ 50Hz*	1 1/2	75	170	**4 944**	3 000	5 550	2 550	29,9	1 800	3 200	3/8"-5/8"	< 4,0	83+47	35	**10 006**
	VSF-GG-2048A[K]	400V 3N ~ 50Hz	2	151	300	**7 830**	6 000	9 190	3 190	17,9	3 150	3 700	1/2"-3/4"	< 5,5	84+75	26	**13 519**
	VSF-GG-3060A[K]	400V 3N ~ 50Hz	3	221	450	**10 490**	6 000	10 870	4 870	19,5	5 200	6 500	1/2"-7/8"	< 6,5	88+140	26	**15 450**

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
0 and 00 series	671	308	442	764	653	207	1x Ø 254
VSF-GY-10015A	1 030	380	577	764	653	207	1x Ø 254
11 series and VSF-GG-1014A	1 030	380	577	886	728	312	1x Ø 360
12 series, VSF-GG-1024A and 1034A	1 030	380	577	886	1 079	312	2x Ø 360
2 and 23 series	1 080	416	827	886	1 803	312	3x Ø 360
VSF-GY-3310A	1 150	487	1 097	886	1 803	312	3x Ø 360
VSF-GG-3060A	1 150	487	1 097	976	2 203	362	3x Ø 450

[1] Nominal performances refer to operation with cold room temperatures of 15 °C (PT) with relative humidity cold room of 70 % and ambient temperature of 35 °C. Volume of cold room for the hotel industry estimated without insulation and warehouse volume estimated with 30 mm insulation. Others applications by request.
[2] Input power at dehumidification mode.
[3] Input power at refrigeration mode.
[4] Units with refrigerant charge less than 5 tons of CO_2 equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.
[5] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 400V 3N 50Hz power supply.
[K] Standard models with external vapour humidification kit.

Centrifugal version

	Series / Model	HP	Cond. flow (m³/h)	PED (Pa) [6]	Price (€)
R-134a	**VSH-CGY-10010A**	3/8	**575**	**80**	**6 032**
	VSH-CGY-21015A	1/2	**1 000**	**120**	**7 542**
	VSH-CGY-22033A	1	**1 000**	**120**	**9 078**
	VSH-CGY-33053A	1 1/2	**1 500**	**140**	**11 241**
	VSH-CGY-43074A[K]	2	**3 500**	**100**	**14 825**
R-449A	**VSH-CGG-2014A**	1/2	**1 000**	**120**	**7 107**
	VSH-CGG-2024A	1	**1 000**	**120**	**8 556**
	VSH-CGG-3034A	1 1/2	**1 500**	**140**	**10 006**
	VSH-CGG-4048A[K]	2	**3 500**	**100**	**13 519**
	VSH-CGG-4060A[K]	3	**3 500**	**100**	**15 450**

HFC cooling connections

INTARCON commercial range split units are delivered pre-adjusted in factory, with a R-134a or R-449A refrigerant charge enough for up to 10 m of cooling pipes.

Condensing units feature service valves and Flare-type connections for a flared copper pipe for diameters up to 3/4" and ready-to-solder connections for diameters from 7/8".

We recommend using the following nominal pipe diameters for both, liquid and gas lines, according to the length of the cooling pipes. For total length longer than 10 m some extra refrigerant and polyester oil (POE) charge must be added as indicated in the following table:

Model			Connection and recommended liquid-gas pipe diameter depending on pipe length						Additional charge in grams of refrigerant / oil			
			Connections	5 m	10 m	15 m	20 m	25 m	30 m	15 m	20 m	25 m	30 m
R-134a	HIGH TEMPERATURE	- 015	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"							
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"			125 / 100			
		- 033	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	125 / 150	250 / 300	375 / 450	500 / 450
		- 053	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1 200 / 600
		- 074	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1 200 / 600
		- 086	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 250	600 / 500	900 / 750	1 200 / 750
		- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 250	600 / 500	900 / 750	1 200 / 750
		- 136	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	600 / 250	1 200 / 500	1 800 / 750	2 400 / 750
		- 160	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 3/8"	1/2"-1 3/8"	600 / 250	1 200 / 600	1 800 / 900	2 400 / 900
		- 215	Weld 1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	600 / 300	1 200 / 600	1 800 / 900	2 400 / 900
	POSITIVE TEMPERATURE	- 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"							
		- 0 015	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"							
		- 1 015	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"			125 / 100			
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"			125 / 100			
		- 033	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"		125 / 100	250 / 300		
			Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"		125 / 100	250 / 300		
		- 053	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"		125 / 150	250 / 300		
			Flare 1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"		125 / 150	250 / 300		
		- 074	Flare 1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	3/8"-7/8"	3/8"-7/8"	125 / 150	1 200 / 400	1 500 / 600	1 800 / 600
			Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	300 / 150	600 / 400	900 / 600	1 200 / 600
		- 068	Flare 1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	125 / 150	800 / 400	1 100 / 600	1 400 / 600
			Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1 200 / 600
		- 086	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	300 / 200	600 / 400	900 / 750	1 200 / 750
		- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 200	600 / 500	900 / 750	1 200 / 750
		- 136 / - 171	Weld 3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 250	600 / 500	900 / 750	1 200 / 750
		- 215	Weld 3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	1/2"-1 1/8"	1/2"-1 3/8"	1/2"-1 3/8"	600 / 250	1 200 / 600	1 800 / 900	2 400 / 900
		- 271	Weld 1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	600 / 300	1 200 / 600	1 800 / 900	2 400 / 900
R-449A	HIGH TEMPERATURE	- 008 / - 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"							
		- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"			100 / 25			
		- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1 200 / 150
		- 016	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1 200 / 150
		- 018	Flare 1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1 200 / 150
		- 024 / - 026	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1 200 / 300
		- 034	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	300 / 100	600 / 450	900 / 600	1 200 / 600
		- 038	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 150	600 / 450	900 / 600	1 200 / 600
		- 048	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	600 / 150	1 100 / 300	1 700 / 800	2 300 / 800
		- 054	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	600 / 150	1 100 / 600	1 700 / 800	2 300 / 800
		- 060 / - 068	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	900 / 400	1 800 / 800	2 700 / 1200	3 600 / 1 200
		- 086 / - 108	Weld 5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	900 / 400	1 800 / 800	2 700 / 1200	3 600 / 1 200
	POSITIVE TEMPERATURE	- 008 / - 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"							
		- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"			100 / 50			
		- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"			100 / 50			
		- 016	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"		100 / 50	200 / 100		
		- 018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"		100 / 50	200 / 100		
		- 024	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"		100 / 50	900 / 100		
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1 200 / 300
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	3/8"-5/8"	100 / 25	200 / 50	300 / 100	1 000 / 250
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1 200 / 300
		- 034	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	3/8"-3/4"	3/8"-3/4"	100 / 25	200 / 50	800 / 200	1 000 / 250
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1 200 / 300
		- 038	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	100 / 25	500 / 125	800 / 200	1 000 / 250
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	300 / 100	600 / 450	900 / 600	1 200 / 600
		- 048	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	500 / 125	100 / 250	1 500 / 350	2 000 / 500
			Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 75	500 / 125	800 / 200	1 000 / 250
		- 054	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 150	600 / 300	900 / 450	1 200 / 450
		- 060	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-1 1/8"	500 / 125	1 000 / 250	1 500 / 350	2 000 / 500
			Flare 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-1 1/8"	500 / 125	1 000 / 250	1 500 / 350	2 000 / 500
			Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 75	500 / 125	800 / 250	1 000 / 250
		- 068	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	600 / 300	1 100 / 600	1 700 / 800	2 300 / 800
			Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	250 / 60	500 / 125	700 / 200	800 / 200
		- 086	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	600 / 300	1 100 / 600	1 700 / 800	2 300 / 800
		- 108	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	600 / 400	1 100 / 800	1 700 / 1 200	2 300 / 1 200
		- 136	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	600 / 400	1 100 / 800	1 700 / 1 200	2 300 / 1 200
	NEGATIVE TEMPERATURE	- 018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"							
			Flare 3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	250 / 200	500 / 400	750 / 500	1 000 / 750
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"			100 / 100			
		- 034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"		300 / 100	600 / 200		
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 300	600 / 450	900 / 600	1 200 / 600
		- 055	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	100 / 75	200 / 150	250 / 200	300 / 250
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	300 / 300	600 / 450	900 / 800	1 200 / 800
		- 075	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	100 / 75	200 / 130	250 / 200	350 / 250
			Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	300 / 300	600 / 450	900 / 800	1 200 / 800
R-452A		-096	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	160/100	320/200	480/300	640/400
		-108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-11/8"	3/8"-11/8"	160/100	320/200	560/350	740/460
		-136	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-11/8"	3/8"-11/8"	3/8"-11/8"	3/8"-11/8"	190/120	370/230	560/350	740/460
		-215	Weld 1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-13/8"	1/2"-13/8"	240/150	470/290	760/300	1 010/630
		-271	Weld 1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-15/8"	250/160	500/310	760/480	1 080/680

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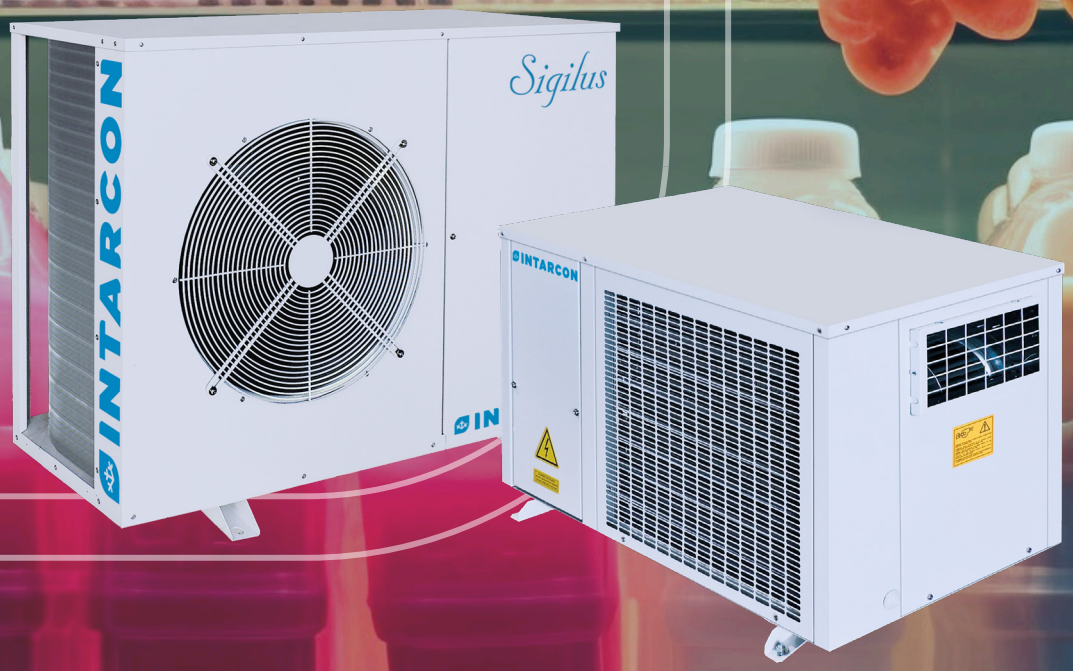
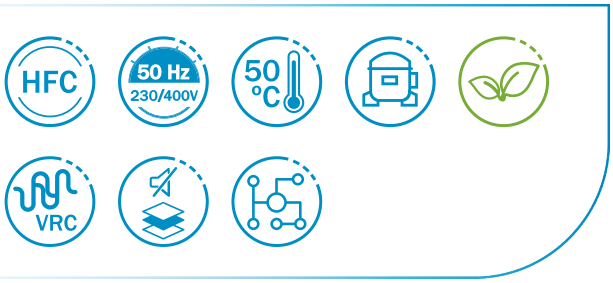


Condensing units
HFC

INTARCON

Sigilus



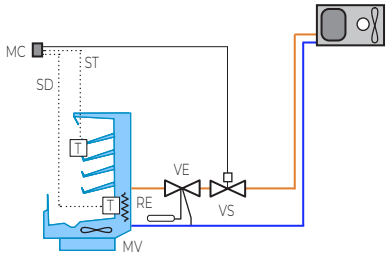
Low noise condensing units for positive and negative refrigeration with hermetic alternative compressor with noise insulation and low speed axial motor fan.

FEATURES

Reciprocating hermetic compressor, mounted on shock absorbers, with discharge muffler, crankcase heater and internal klixon.	■
Large-surface condensing coil made of copper tubes and aluminium fins, with tropicalised dimensioning for ambient temperatures up to 50 °C.	■
Low speed axial motor fan.	■
Refrigeration circuit equipped with high and low pressure switches, ceramic filter, liquid receiver and sight gauge.	■
Digital control of condensation pressure with the optional electrical board, and all-nothing condensation control in condensers without electrical panel.	■
Proportional control of condensing pressure through fan speed variation (included in three-phase models).	■
Full control and power board with compressor and motor fan protection.	■
Liquid injection system for negative temperature models with R-449A.	■
Change to 400V 3N 50Hz power supply.	□ + 8 %
Built-in oil separator (already included in -V version).	□ + 745 €
Built-in solenoid valve with body and coil (except -V version).	□ + 183 €
Anti-corrosion coil coating.	□ + 8 %
Coil protection grille.	□ + 117 €
Proportional condensation control by fan speed variator (single-phase 1 series).	□ + 317 €
Control and power panel with electronic control unit for management of condenser and evaporator (except BDF-NG-0 018 model). Larger sized multifunction electronic control.	□ + 550 € □ + 192 €
Multi-service version with VRC system (included oil separator). Table models with (V).	□ + 1 274 €

■ As standard □ Optional

Installation without electrical board (-N version)



MC: CONTROL PAD
MV: MOTOR FAN
RE: DEFROST HEATER
ST: THERMOSTAT PROBE
SD: DEFROST PROBE
VE: EXPANSION VALVE
VS: SOLENOID VALVE

Triple noise insulation

Sigilus condensing units incorporate triple noise insulation as standard:

- Insulated compressor compartment separated from air flow.
- Acoustic compressor jacket (three-phase models) and discharge muffler (hermetic models).
- Low-noise and low-speed fans, mounted on shock absorbers.

Proportional condensation control

Sigilus condensing units incorporate proportional condensation control by speed variation for prolonged running times at low ambient temperature.

CLIENT360
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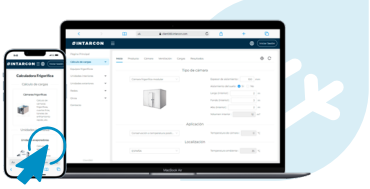
REFRIGERATION CALCULATION SOFTWARE



230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) [1] -10 °C	Cooling capacity (W) [2] Average evaporating temperature -15 °C	-10 °C	-5 °C	0 °C	Input power (W)	(COP) SEPR [3]	Max. current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) [4]	Price without electronic control (€)
R-134a	**MDF-NY-0010A**	230V I+N ~ 50Hz	3/8	**570**	430	**560**	710	880	330	(1.75)	4	Ø 200	350	1/4"-3/8"	50	28	**1 993**
	MDF-NY-0015A	230V I+N ~ 50Hz	1/2	**795**	595	**775**	975	1 200	460	(1.73)	5	Ø 200	350	1/4"-3/8"	52	29	**2 126**
	MDF-NY-1015A	230V I+N ~ 50Hz	1/2	**875**	650	**865**	1 110	1 395	490	(1.78)	5	Ø 360	1 700	1/4"-1/2"	66	31	**2 245**
	MDF-NY-1026A	230V I+N ~ 50Hz	3/4	**1 340**	980	**1 315**	1 710	2 160	710	(1.89)	9	Ø 360	1 700	1/4"-1/2"	74	31	**2 392**
	MDF-NY-1033A	230V I+N ~ 50Hz	1	**1 730**	1 280	**1 685**	2 160	2 700	820	(2.11)	9	Ø 360	1 700	1/4"-5/8"	76	31	**2 723**
	MDF-NY-1053A	230V I+N ~ 50Hz*	1 1/2	**2 425**	1 710	**2 360**	3 115	3 975	1 040	(2.33)	12	Ø 360	1 700	1/4"-3/4"	88	32	**3 228**
	MDF-NY-1074A	230V I+N ~ 50Hz*	2	**3 150**	2 210	**3 045**	4 005	5 080	1 370	(2.29)	16	Ø 360	1 700	1/4"-3/4"	90	36	**4 062**
	MDF-NY-2086A[V]	400V 3N ~ 50Hz	4	**4 230**	3 090	**4 130**	5 360	6 800	1 840	(2.32)	13	Ø 450	3 600	3/8"-7/8"	98	38	**4 559**
	MDF-NY-2108A[V]	400V 3N ~ 50Hz	5	**5 175**	3 765	**5 035**	6 535	8 280	2 230	3.23	16	Ø 450	3 600	3/8"-7/8"	100	35	**4 831**
	MDF-NY-2136A[V]	400V 3N ~ 50Hz	6 1/2	**6 575**	4 835	**6 385**	8 200	10 140	2 990	2.87	19	Ø 450	3 600	3/8"-1 1/8"	103	34	**5 541**
R-449A	**MDF-NG-0008A**	230V I+N ~ 50Hz	1/3	**570**	490	**635**	790	965	360	(1.71)	4	Ø 200	350	1/4"-3/8"	51	28	**1 877**
	MDF-NG-0010A	230V I+N ~ 50Hz	3/8	**735**	635	**805**	1 000	1 210	460	(1.72)	5	Ø 200	350	1/4"-3/8"	51	29	**2 002**
	MDF-NG-0012A	230V I+N ~ 50Hz	1/2	**870**	755	**945**	1 160	1 395	540	(1.74)	6	Ø 200	350	1/4"-3/8"	51	29	**2 117**
	MDF-NG-1014A	230V I+N ~ 50Hz	1/2	**1 075**	930	**1 200**	1 515	1 870	660	(1.71)	6	Ø 360	1 700	1/4"-1/2"	66	32	**2 256**
	MDF-NG-1016A	230V I+N ~ 50Hz	5/8	**1 220**	1 040	**1 385**	1 770	2 200	740	(1.77)	7	Ø 360	1 700	1/4"-1/2"	76	32	**2 437**
	MDF-NG-1018A	230V I+N ~ 50Hz	3/4	**1 525**	1 310	**1 710**	2 140	2 630	880	(1.85)	8	Ø 360	1 700	1/4"-1/2"	76	32	**2 564**
	MDF-NG-1024A	230V I+N ~ 50Hz	1	**1 940**	1 650	**2 195**	2 815	3 485	1 010	(2.04)	12	Ø 360	1 700	3/8"-5/8"	78	32	**2 811**
	MDF-NG-1026A	230V I+N ~ 50Hz*	1 1/4	**2 185**	1 870	**2 455**	3 085	3 790	1 130	(2.05)	13	Ø 360	1 700	3/8"-5/8"	78	32	**2 873**
	MDF-NG-1034A	230V I+N ~ 50Hz*	1 1/2	**2 820**	2 420	**3 125**	3 895	4 765	1 600	(1.91)	16	Ø 360	1 700	3/8"-5/8"	78	32	**2 970**
	MDF-NG-1038A[V]	400V 3N ~ 50Hz	1 3/4	**3 105**	2 650	**3 440**	4 320	5 315	1 530	(2.11)	7	Ø 450	3 200	3/8"-5/8"	81	29	**3 616**
	MDF-NG-2048A[V]	400V 3N ~ 50Hz	2	**3 985**	3 410	**4 410**	5 525	6 805	1 890	(2.25)	8	Ø 450	3 600	3/8"-3/4"	85	26	**4 060**
	MDF-NG-2054A[V]	400V 3N ~ 50Hz	2 1/2	**4 595**	3 950	**5 020**	6 250	7 660	2 090	(2.35)	9	Ø 450	3 600	3/8"-3/4"	86	26	**4 298**
	MDF-NG-2060A[V]	400V 3N ~ 50Hz	3	**5 300**	4 575	**5 750**	7 105	8 655	2 480	3.26	10	Ø 450	3 600	3/8"-3/4"	87	26	**4 691**
	MDF-NG-2068A[V]	400V 3N ~ 50Hz	3 1/2	**5 975**	5 160	**6 460**	7 955	9 635	2 850	3.14	10	Ø 450	3 600	1/2"-3/4"	88	25	**4 928**

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

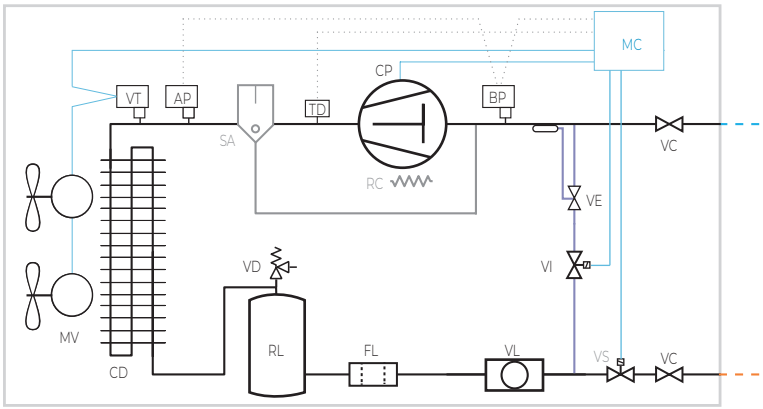
Refrigerant	Series / Model	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) [1] Evap. temp. -35°C	Cooling capacity (W) [2] Average evaporating temperature -35 °C	-30 °C	-25 °C	Input power (W)	(COP) SEPR [3]	Max. current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) [4]	Price without electronic control (€)
R-449A	**BDF-NG-0018A**	230V I+N ~ 50Hz	5/8	**335**	**415**	600	795	430	(0.96)	6	Ø 200	350	1/4"-1/2"	58	28	**2 613**
	BDF-NG-1026A	230V I+N ~ 50Hz	3/4	**545**	**655**	945	1 285	670	(0.97)	9	Ø 360	1 700	1/4"-1/2"	76	31	**3 167**
	BDF-NG-1034A	230V I+N ~ 50Hz	1 1/4	**720**	**865**	1 245	1 690	900	(0.95)	10	Ø 360	1 700	3/8"-5/8"	79	32	**3 597**
	BDF-NG-1055A	230V I+N ~ 50Hz*	1 3/4	**920**	**1 160**	1 745	2 425	1 170	(0.99)	16	Ø 360	1 700	3/8"-5/8"	85	34	**4 062**
	BDF-NG-1075A	230V I+N ~ 50Hz*	2 1/2	**1 360**	**1 645**	2 375	3 125	1 560	(1.06)	24	Ø 360	1 700	3/8"-5/8"	90	36	**4 140**
R-452A	**BDF-NB-2096A**	400V 3N ~ 50Hz	3 1/2	**1 555**	**1 755**	2 772	3 933	1 740	(1.22)	11	Ø 450	3 600	3/8"-3/4"	98	39	**5 588**
	BDF-NB-2108A	400V 3N ~ 50Hz	4	**1 945**	**2 171**	3 296	4 529	2 070	1.61	13	Ø 450	3 600	3/8"-7/8"	98	37	**5 979**
	BDF-NB-2136A	400V 3N ~ 50Hz	5	**2 560**	**2 844**	4 120	5 533	2 740	1.60	15	Ø 450	3 600	3/8"-7/8"	98	32	**6 369**
	BDF-NB-3215A	400V 3N ~ 50Hz	7 1/2	**3 902**	**4 351**	6 361	8 565	4 070	1.60	24	2x Ø 450	6 500	1/2"-1 1/8"	149	39	**8 050**
	BDF-NB-3271A	400V 3N ~ 50Hz	10	**5 444**	**5 923**	8 178	10 664	5 900	1.60	28	2x Ø 450	6 500	1/2"-1 1/8"	149	39	**8 400**

[1] Conditions based on UNE-EN 13215: ambient temp. 32 °C, , average evap. temp -10 °C (PT) and -35 °C (NT), of suction temperature 20 °C.
[2] Cooling capacity in nominal conditions: average evaporating temp -35 °C (NT), ambient temperature of 32 °C, overheating 10 K, refrigerant R-449A.
[3] COP/SEPR: Coefficient of Performance (COP) and Seasonal Energy Performance Ratio (SEPR) according to Directive ErP 2015/1095/UE.

	Cooling capacity	Ecodesign standard
PT	0,2 < P≤ 1 kW	COP ≥ 1,40
	1 < P≤ 5 kW	COP ≥ 1,60
	5 < P≤ 20 kW	SEPR ≥ 2,55
NT	P≤ 2 kW	COP ≥ 0,95
	2 < P≤ 8 kW	SEPR ≥ 1,60

[4] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
[V] Model that allow VRC system.
* Units available in 400V 3N 50Hz.

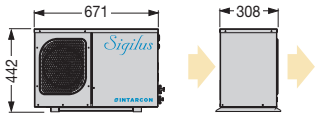
REFRIGERATION SCHEME



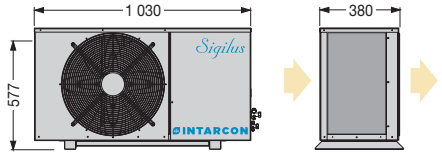
AS STANDARD
AP: HIGH PRESSURE SWITCH
BP: LOW PRESSURE SWITCH
CD: CONDENSER
CP: COMPRESSOR
FL: FILTER
MV: MOTOR FAN
RL: LIQUID VESSEL
RC: CRANKCASE HEATER
VC: SERVICE VALVE
VD: SECURITY VALVE (UP TO 1 HP)
VL: SIGHT GAUGE
VT: VOLTAGE REGULATOR
OPTIONAL
SA: OIL SEPARATOR
VS: SOLENOID VALVE
LIQUID INJECTION SYSTEM (ONLY BDF-G)
TD: DISCHARGE THERMOSTAT
VE: THERMOSTATIC EXPANSION VALVE
VI: LIQUID SOLENOID VALVE
OPTIONAL -N VERSION
MC: ELECTRONIC MICRO-CONTROLLER

DIMENSIONS

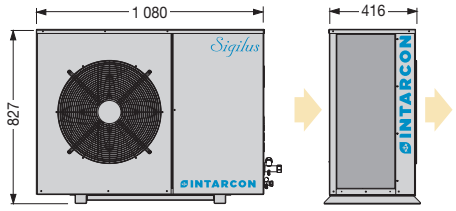
0 series



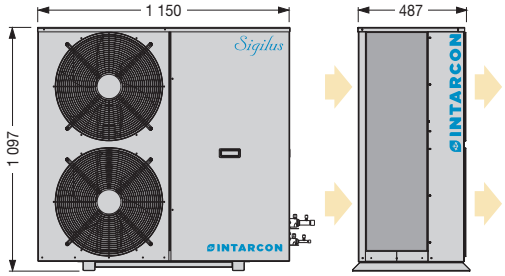
1 series



2 series



3 series



Dimensions in mm.

MDF-N and BDF-N version N (with optional electronic control)

Sigilus condensing units with optional electronic control incorporate an advanced electronic controller XM670K for the management of the condensing unit and the evaporator, being able to optionally integrate the solenoid valve.

- Multifunction remote digital control.
- Electronic board integrated in the condensing unit for 6 control relays for: compressor, condensing fan, evaporator fan, defrost, light and alarm.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Liquid injection system

Negative temperature condensing units incorporate a safety cooling system for the motor by liquid injection into the compressor suction.

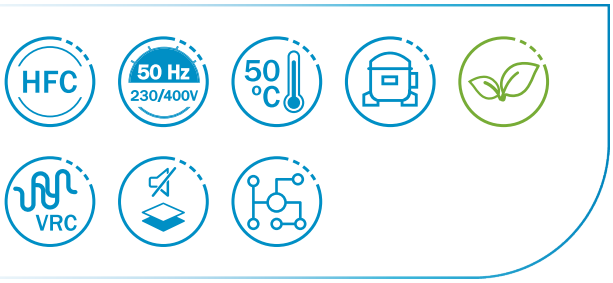
R-449A refrigerant has high gas discharge temperature under conditions of high compression ratio and high suction gas superheat.

To protect the motor windings and preserve oil stability, compressor cooling is necessary in certain situations.

Oil separator (optional)

Sigilus condensing units connected to a single evaporator usually not require an oil separator. This is recommended for long pipe lengths (> 30 m) being necessary for a suitable circuit design to ensure oil return.

intarbox



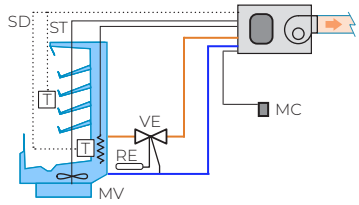
Air-cooled packaged condensing units at positive or negative temperature, in horizontal construction with an alternative hermetic compressor, and low speed axial or centrifugal motor fan.

FEATURES

Reciprocating hermetic or scroll compressor, mounted on shock absorbers, with discharge muffler, crankcase heater and internal klixon.	■
High performance condensing coil in copper pipes and aluminium fins.	■
Centrifugal motor fan with available static pressure for a ducted outlet of condenser hot air (centrifugal version).	■
Refrigeration circuit equipped with high and low pressure switches, ceramic filter, liquid receiver and sight gauge.	■
Digital control of condensation pressure with the optional electrical board, and all-nothing condensation control in condensers without electrical panel.	■
Proportional control of condensing pressure through fan speed variation (included in MDH series 4 and above).	■
Full control and power board with compressor and motor fan protection.	■
Electronic regulation with evaporator control pad (-N version with optional electrical board).	■
Liquid injection system for negative temperature models with R-449A.	■
Change to 400V 3N 50Hz power supply.	□ + 8 %
Proportional control of condensing pressure through speed variation (3 axial series, and 0 up to 3 centrifugal series).	□ + 317 €
Built-in oil separator (already included in -V version).	□ + 745 €
Crankcase heater.	□ + 77 €
Built-in solenoid valve with body and coil (except -V version).	□ + 183 €
Anti-corrosion coil coating.	□ + 8 %
Non-return damper (centrifugal version).	□ + 69 €
Adaptation of air discharge to circular duct.	□ + 127 €
Vertical discharge (centrifugal version).	□ + 0 €
Control and power panel with electronic control unit for management of condenser and evaporator. Larger sized multifunction electronic control.	□ + 550 € □ + 192 €
Multi-service version with VRC system (included oil separator) Table models with (V).	□ + 1 274 €

■ As standard □ Optional

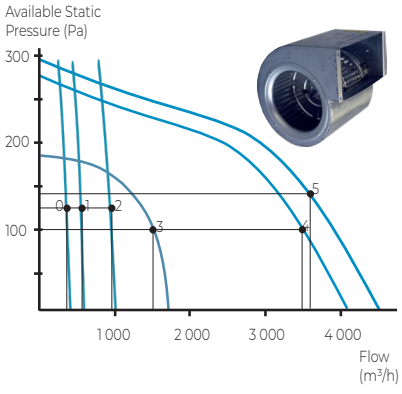
-C version with electronic control installation scheme



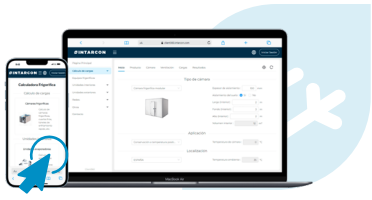
MC: CONTROL PAD
MV: MOTOR FAN
RE: DEFROST HEATER
ST: THERMOSTAT PROBE
SD: DEFROST PROBE
VE: EXPANSION VALVE
VS: EXPANSION VALVE

Centrifugal fan (centrifugal version)

intarbox condensing units feature centrifugal motor fans for a ducted outlet of condenser hot air.



CLIENT360
client360.intarcon.com
REFRIGERATION CALCULATION SOFTWARE



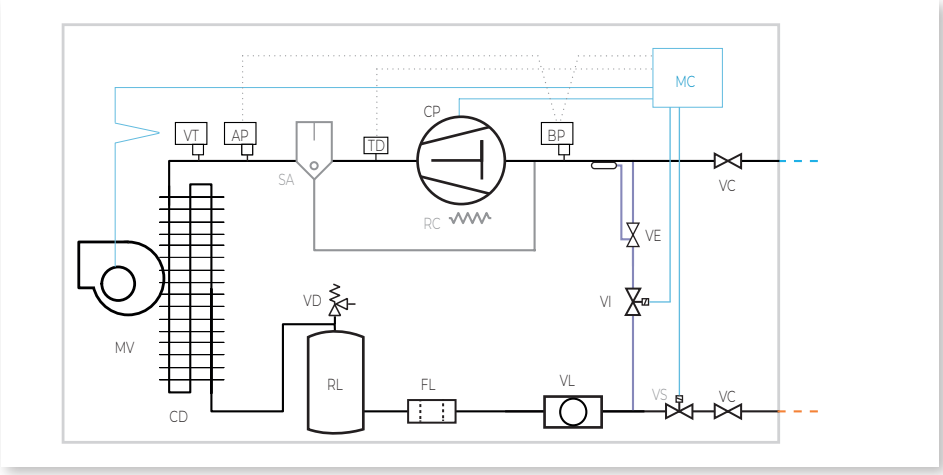
230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) [1] Evap. temp. -10 °C	Cooling capacity (W) [2], Average evaporating temperature -15 °C	-10 °C	-5 °C	-0 °C	Input power (W)	(COP) SEPR [3]	Max. current (A)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) [3]	Price without electronic control (€)	Series / Model Centrifugal	Conden. air flow (m³/h)	PED (Pa) [4]	Price without electronic control (€)
R-134a	MDH-NY-0010A	230V I+N ~ 50Hz	3/8	575	430	565	715	890	370	(1.54)	4	1/4"-3/8"	45	29	1 616	MDH-CY-0010A	375	80	1 851
	MDH-NY-0015A	230V I+N ~ 50Hz	1/2	800	600	785	985	1 215	510	(1.58)	5	1/4"-3/8"	47	32	1 775	MDH-CY-0015A	375	80	2 088
	MDH-NY-1015A	230V I+N ~ 50Hz	1/2	840	630	825	1 050	1 305	500	(1.69)	5	1/4"-1/2"	50	32	1 849	MDH-CY-1015A	575	80	2 227
	MDH-NY-1026A	230V I+N ~ 50Hz	3/4	1 225	900	1 200	1 530	1 910	720	(1.72)	9	1/4"-1/2"	58	30	2 203	MDH-CY-1026A	575	80	2 380
	MDH-NY-1033A	230V I+N ~ 50Hz	1	1 555	1 155	1 505	1 890	2 325	830	(1.87)	9	1/4"-1/2"	60	33	2 268	MDH-CY-1033A	575	80	2 803
	MDH-NY-2053A	230V I+N ~ 50Hz*	1 1/2	2 210	1 565	2 130	2 785	3 505	1 060	(2.08)	12	1/4"-5/8"	70	38	2 888	MDH-CY-2053A	1 000	120	3 412
	MDH-NY-3074A	230V I+N ~ 50Hz*	2	3 045	2 140	2 940	3 845	4 855	1 360	(2.23)	16	1/4"-3/4"	90	44	3 539	MDH-CY-3074A	1 500	140	3 897
	MDH-NY-4086A(V)	400V 3N ~ 50Hz	4	4 160	3 040	4 065	5 270	6 660	2 020	(2.09)	14	3/8"-7/8"	97	48	4 218	MDH-CY-4086A(V)	3 500	100	5 344
	MDH-NY-4108A(V)	400V 3N ~ 50Hz	5	5 065	3 690	4 935	6 380	7 940	2 46	2.85	17	3/8"-7/8"	99	45	4 708	MDH-CY-4108A(V)	3 500	100	5 832
	MDH-NY-4136A(V)	400V 3N ~ 50Hz	6 1/2	6 410	4 720	6 215	7 825	9 595	3 330	2.56	20	3/8"-1 1/8"	102	44	5 146	MDH-CY-4136A(V)	3 500	100	6 275
R-449A	MDH-NG-0008A	230V I+N ~ 50Hz	1/3	570	490	640	800	975	400	(1.50)	4	1/4"-3/8"	46	31	1 493	MDH-CG-0008A	375	80	1 702
	MDH-NG-0010A	230V I+N ~ 50Hz	3/8	745	640	815	1 010	1 225	500	(1.57)	5	1/4"-3/8"	46	34	1 540	MDH-CG-0010A	375	80	1 889
	MDH-NG-0012A	230V I+N ~ 50Hz	1/2	880	760	955	1 175	1 415	580	(1.61)	6	1/4"-3/8"	46	34	1 612	MDH-CG-0012A	375	80	2 019
	MDH-NG-1014A	230V I+N ~ 50Hz	1/2	1 065	925	1 165	1 435	1 740	670	(1.69)	6	1/4"-1/2"	50	34	1 754	MDH-CG-1014A	575	80	2 099
	MDH-NG-1016A	230V I+N ~ 50Hz	5/8	1 190	1 020	1 310	1 630	1 985	750	(1.71)	7	1/4"-1/2"	60	34	1 949	MDH-CG-1016A	575	80	2 243
	MDH-NG-1018A	230V I+N ~ 50Hz	3/4	1 440	1 240	1 565	1 925	2 325	900	(1.73)	8	1/4"-1/2"	60	34	2 049	MDH-CG-1018A	575	80	2 461
	MDH-NG-2024A	230V I+N ~ 50Hz	1	1 915	1 635	2 105	2 630	3 215	1 060	(1.93)	12	3/8"-5/8"	60	35	2 249	MDH-CG-2024A	1 000	120	2 822
	MDH-NG-2026A	230V I+N ~ 50Hz*	1 1/4	2 130	1 830	2 320	2 870	3 485	1 190	(1.91)	13	3/8"-5/8"	61	36	2 284	MDH-CG-2026A	1 000	120	3 039
	MDH-NG-2034A	230V I+N ~ 50Hz*	1 1/2	2 635	2 260	2 865	3 525	4 240	1 660	(1.72)	16	3/8"-5/8"	61	37	2 351	MDH-CG-2034A	1 000	120	3 182
	MDH-NG-3038A(V)*	400V 3N ~ 50Hz	1 3/4	2 985	2 555	3 250	4 025	4 890	1 510	(2.12)	6	3/8"-5/8"	78	39	2 970	MDH-CG-3038A(V)*	1 500	140	4 097
	MDH-NG-4048A(V)	400V 3N ~ 50Hz	2	3 955	3 390	4 345	5 430	6 685	2 070	(2.06)	13	3/8"-3/4"	95	36	3 632	MDH-CG-4048A(V)	3 500	100	4 756
	MDH-NG-4054A(V)	400V 3N ~ 50Hz	2 1/2	4 535	3 900	4 940	6 145	7 515	2 300	(2.13)	14	3/8"-3/4"	96	36	4 063	MDH-CG-4054A(V)	3 500	100	5 190
	MDH-NG-4060A(V)	400V 3N ~ 50Hz	3	5 220	4 505	5 655	6 980	8 435	2 740	2.97	15	3/8"-3/4"	97	36	4 564	MDH-CG-4060A(V)	3 500	100	5 768
	MDH-NG-4068A(V)	400V 3N ~ 50Hz	3 1/2	5 880	5 075	6 345	7 775	9 330	3 160	2.86	15	1/2"-3/4"	98	35	4 698	MDH-CG-4068 (V)	3 500	100	6 418

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model Axial	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) [1] Evap. temp. -35 °C	Cooling capacity (W) [2], Average evaporating temperature -35 °C	-30 °C	-25 °C	Input power (W)	(COP) SEPR [3]	Max. current (A)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) [3]	Price without electronic control (€)	Series / Model Centrifugal	Conden. air flow (m³/h)	PED (Pa) [4]	Price without electronic control (€)
R-449A	BDH-NG-1026A	230V I+N ~ 50Hz	3/4	540	660	930	1 220	670	(0.97)	9	1/4"-1/2"	51	31	2 387	BDH-CG-1026A	575	80	2 596
	BDH-NG-1034A	230V I+N ~ 50Hz	1 1/4	715	860	1 170	1 525	900	(0.95)	10	1/4"-1/2"	52	33	2 464	BDH-CG-1034A	575	80	2 658
	BDH-NG-2055A	230V I+N ~ 50Hz*	1 3/4	915	1 165	1 700	2 265	1 210	(0.95)	13	3/8"-5/8"	61	41	3 143	BDH-CG-2055A	1 000	120	3 375
	BDH-NG-2075A	230V I+N ~ 50Hz*	2 1/2	1 355	1 620	2 200	2 855	1 600	(1.02)	25	3/8"-5/8"	66	44	3 220	BDH-CG-2075A	1 000	120	3 450
R-452A	BDH-NB-3096A	400V 3N ~ 50Hz	3 1/2	1 532	1 696	2 450	3 284	1 680	(1.16)	11	3/8"-3/4"	88	49	4 657	BDH-CB-3096A	1 500	140	5 064
	BDH-NB-4108A	400V 3N ~ 50Hz	4	1 935	2 159	3 218	4 370	2 300	1.62	14	3/8"-7/8"	108	47	5 939	BDH-CB-4108A	3 500	100	6 409
	BDH-NB-5136A	400V 3N ~ 50Hz	5	2 561	2 847	4 222	5 736	2 960	1.61	16	3/8"-1 1/8"	152	42	7 968	BDH-CB-5136A	3 600	100	8 517
	BDH-NB-5215A	400V 3N ~ 50Hz	7 1/2	3 838	4 218	6 011	7 981	4 160	1.60	24	1/2"-1 1/8"	183	49	8 491	BDH-CB-5215A	3 600	100	9 062

REFRIGERATION SCHEME



EQUIPMENT LEGEND ON PAGE 74

[1] Conditions based on UNE-EN 13215: ambient temp. 32 °C, average evap. temp. -10 °C (PT) and -35 °C (NT), 20 °C of suction temperature.
[2] Conditions based on UNE-EN 13215: ambient temp. 32 °C, average evap. temp. -10 °C (PT) and -35 °C (NT), overheating 10 K.
[3] COP/SEPR: Coefficient of Performance according to Ecodesign Directive 2015/1095/EU.

	Cooling capacity	Ecodesign standard
PT	0,2 < P≤ 1 kW	COP ≥ 1,40
	1 < P≤ 5 kW	COP ≥ 1,60
	5 < P≤ 20 kW	SEPR ≥ 2,55
NT	P≤ 2 kW	COP ≥ 0,95
	2 < P≤ 8 kW	SEPR ≥ 1,60

[4] Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
(V) Model that allow VRC system.
* Units available with 400V 3N 50Hz power supply.

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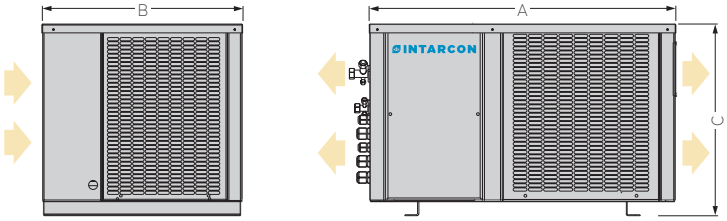
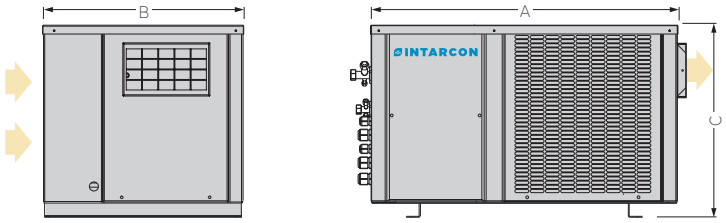
DIMENSIONS

DH - Axial series



Dimensions (mm)	A	B	C
0 series	600	396	355
1 series	665	435	416
2 series	835	435	500
3 series	925	580	515
4 series	1 000	615	585
5 series	1 289	757	657

DH - Centrifugal series



Dimensions (mm)	A	B	C	Fan outlet	Hopper (optional)
0 series	600	396	355	185 x 115	Ø 150
1 series	665	435	416	185 x 115	Ø 150
2 series	835	435	500	230 x 130	Ø 200
3 series	925	580	515	266 x 236	Ø 250
4 series	1 000	615	585	305 x 266	Ø 360
5 series	1 289	757	657	305 x 266	Ø 360

MDH-N and BDH-N (with optional electronic control)

intarbox condensing units with the optional electronic control incorporate an advanced electronic controller XM670K for the management of the condensing unit and the evaporator, being able to optionally integrate the solenoid valve.

- Multifunction remote digital control.
- Electronic board integrated in the condensing unit for 6 control relays for: compressor, condensing fan, evaporator fan, defrost, light and alarm.
- Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

Ecodesign of condensing units

Regulation (EU) 2015/1095 establishes a series of Ecodesign requirements. For condensing units up to 5 kW and 2 kW in PT and NT respectively, a minimum value requirement is established for the coefficient of performance COP, while for higher power unit the requirement refers to a normalized seasonal performance SEPR.

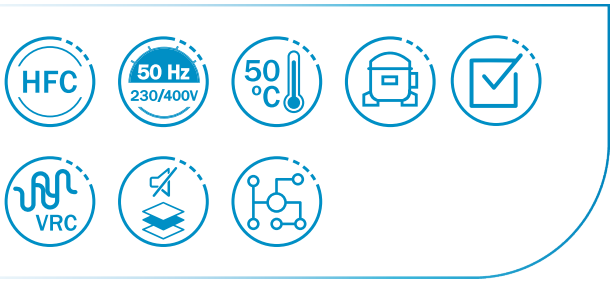
At INTARCON we have redesigned our product range to adapt to the Ecodesign directive, incorporating energy efficiency technologies, electronic motor fans and floating condensation control.

Exhaust duct

Recommended size for 20 m long steel, PVC or fibreglass ducts (each elbow at 90° equals 5 m in length). For flexible or semi-flexible ducts use a larger size:

- 0 series: 200 x 150 mm or Ø 150 mm
- 1 series: 200 x 200 mm or Ø 150 mm
- 2 series: 250 x 150 mm or Ø 200 mm
- 3 series: 300 x 200 mm or Ø 250mm
- 4 and 5 series: 350 x 400 mm oder Ø 360 mm

Variable Refrigerant Capacity | VRC

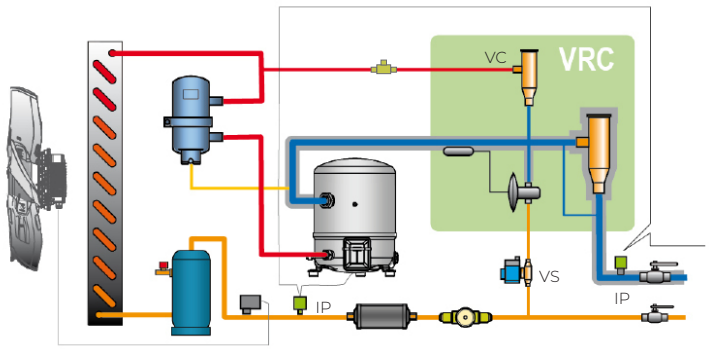


Multi-service version, featuring VRC system (Variable Refrigerant Capacity), of refrigeration capacity control. Designed to centralise the refrigeration production of a set of evaporator units. Applicable to hermetic alternative compressors, consisting of:

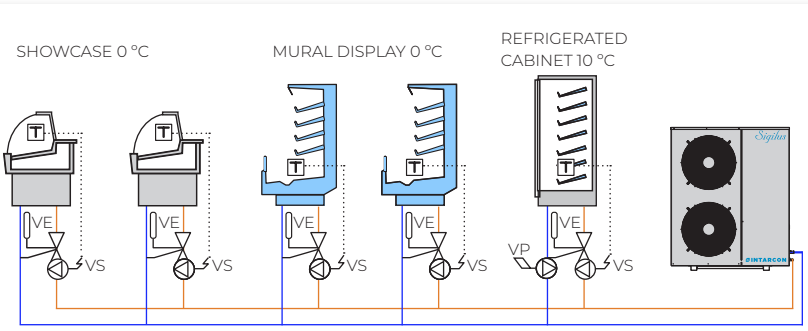
Multi-service versions of condensing units

- Horizontal axial or centrifugal multi-service version. intarbox-multi: MDH-CV/-V series.
- Horizontal axial low-noise multi-service version. Sigilus-multi: MDF-V series.

REFRIGERATION SCHEME



INSTALLATION SCHEME

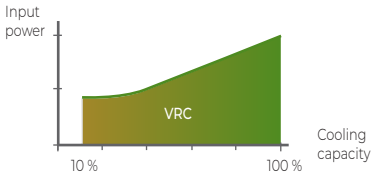


VP: ASPIRATION PRESSOSTATIC VALVE
VC: BYPASS PRESSOSTATIC VALVE
VE: THERMOSTATIC LIQUID INJECTION VALVE
IP: LIQUID INJECTION CONTROL PRESOSTAT

VRC system (Variable Refrigerant Capacity)

VRC system is composed of a set of pressure and temperature valves capable of progressive variation of a compressor's cooling capacity between 100 % and 10 % of this rated power, at the same time the system reduces electrical input power and protects the compressor, maintaining its compression ratio within security margins, eliminating the risk of overheating.

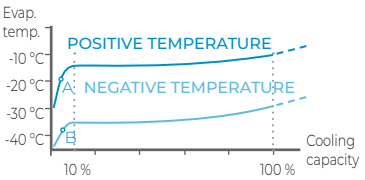
VRC system applied to a reciprocating hermetic compressor adjusts the flow of refrigerant to the evaporator unit's demand by maintaining constant pressure in the suction line.



VRC system is characterized by:

- Consisting exclusively of high reliability mechanical components.
- Keeps the evaporation pressure constant.
- Protects the compressor against the risk of engine overheating.
- Maintains the compression ratio of the compressor within the safety limits.

Condensing units equipped with VRC system allow centralizing the refrigeration production of a set of services, maintaining constant the pressure and temperature of the refrigerant in the evaporators.



VRC system can be easily regulated to set a minimum evaporation pressure. The factory setting provides the following minimum evaporation temperatures:

- Positive temperature units: -13 °C
- Negative temperature units: -35 °C

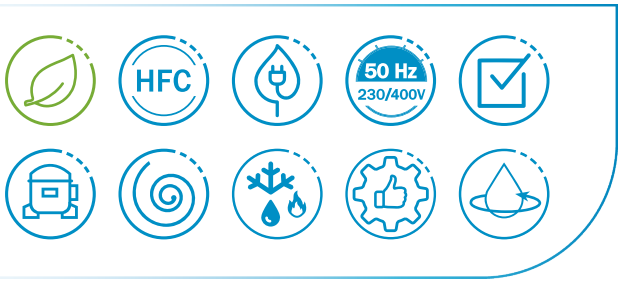
With demand below 10 % of the nominal power, the characteristic of the evaporation pressure curve falls towards the minimum value admitted by the compressor, disconnecting the low pressure switch (points A and B) and stopping the compressor.

In this way, the multi-service condensing units are designed for low-pressure stop / start control (drop down or pump down).

Alternatively, the compressor running stop can be done through an external open / closed contact.

Water-cooled condensing units HFC

Water-cooled condensing units



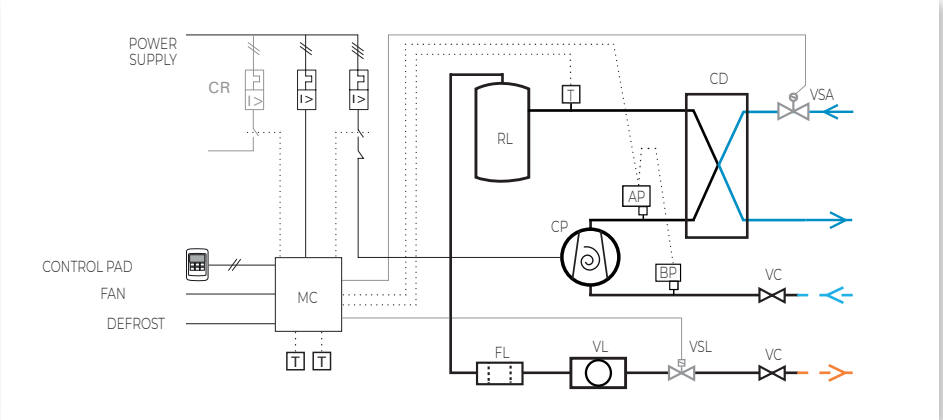
Water-cooled condensing units for positive and negative temperature refrigeration, with very compact size and quiet operation, designed for on-wall or floor installation.

FEATURES

Casing in pre-painted galvanized steel sheet, with noise insulation, with removable front panel for access to the compressor and the electrical panel.	■
Acoustically insulated scroll compressor, mounted on shock absorbers.	■
Horizontal construction rotary compressor (MDM-P / BDM-P).	■
Stainless steel brazed plates heat exchanger. Cooling circuit with ceramic dryer filter, sight glass, high and low pressure switches and services valves.	■
Hydraulic condensation circuit made of copper pipe with threaded connections.	■
Electromechanic control panel with thermomagnetic protection.	■
Liquid injection system for negative temperature models with R-449A.	■
Change to 230V 50Hz power supply.	□ + 8 %
Electronic control for evaporator and compressor with temperature probes and control suitable for local or remote control.	□ + 550 €
Refrigerant pre-charge for 5 m piping.	□ + 8 %
Built-in liquid solenoid valve with body and coil.	□ + 183 €
Water solenoid valve.	□ + 183 €
Dynamic balancing valve.	By request
Glycol water condensation.	By request

■ As standard □ Optional

REFRIGERATION AND ELECTRICAL SHEME



Installation example

ON THE FLOOR

ON THE FURNITURE

ANCHORED AT THE WALL

Rotary compressors

Hermetic rotary compressors provide greater reliability, lower noise and maximum design flexibility. Copeland scroll compressors, are characterized by their great robustness and reliability of operation, and being cooled exclusively by the refrigerant gas, allow effective sound proofing.

AS STANDARD
AP: HIGH PRESSURE SWITCH
BP: LOW PRESSURE SWITCH
CD: HEAT EXCHANGER
CP: COMPRESSOR
FL: FILTER
MC: MICRO-CONTROLLER
RL: LIQUID VESSEL
T: PROBE
VC: SHUT-OFF VALVE
VL: SIGHT GAUGE
OPTIONAL
CR: DEFROST CONTACTOR
VSA: WATER SOLENOID VALVE
VSL: LIQUID SOLENOID VALVE
ADDITIONAL WITH ELECTRONIC CONTROL
MC: ELECTRONIC MICRO-CONTROLLER

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Rotary or scroll compressor | R-134a / R-449A

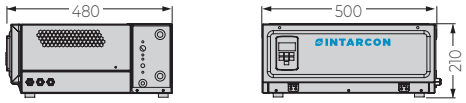
Refrigerant	Compressor	Series / Model	Power supply	Compressor		Cooling capacity (W) [1] Evaporation temperature			Input power (W)	Max. current (A)	Condensing flow (l/h)	Hydraulic connection	Pressure drop (kPa) [2]	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) [3] 1 m	Price (€)
				HP	Model	-10 °C	-5 °C	0 °C									
R-134a	1x Scroll	**MDM-PY-0007A**	230V I+N ~ 50Hz	1/2	HGA-4476Y	**830**	1 030	1 255	500	5	250	3/4"	5	1/4"-1/2"	25	45	**2 102**
		MDM-SY-1009A	400V 3N ~ 50Hz*	1 1/4	ZS09	**1 270**	1 540	1 855	700	3	350	3/4"	5	1/4"-5/8"	34	40	**3 293**
		MDM-SY-1015A	400V 3N ~ 50Hz*	2	ZB15	**1 945**	2 360	2 840	1 100	5	500	3/4"	5	1/4"-5/8"	43	37	**4 150**
		MDM-SY-1021A	400V 3N ~ 50Hz*	3	ZB21	**2 890**	3 520	4 250	1 500	7	750	3/4"	5	1/4"-3/4"	53	40	**4 621**
		MDM-SY-1029A	400V 3N ~ 50Hz	4	ZB29	**3 585**	4 355	5 245	2 000	10	950	1"	5	3/8"-7/8"	53	40	**5 207**
		MDM-SY-1038A	400V 3N ~ 50Hz	5	ZB38	**4 835**	5 880	7 095	2 500	13	1 250	1"	5	3/8"-7/8"	68	43	**5 703**
		MDM-SY-1045A	400V 3N ~ 50Hz	6	ZB45	**5 695**	6 915	8 320	2 900	13	1 500	1"	5	3/8"-1 1/8"	70	43	**6 013**
		MDM-SY-1057A	400V 3N ~ 50Hz	8	ZB57	**7 230**	8 780	10 575	4 000	16	1 950	1 1/4"	5	3/8"-1 1/8"	75	50	**6 946**
R-449A	1x Rot.	**MDM-PG-0006A**	230V I+N ~ 50Hz	1/2	HGA-4467Z	**855**	1 055	1 285	500	5	200	3/4"	5	1/4"-3/8"	22	38	**1 744**
		MDM-PG-0010A	230V I+N ~ 50Hz	1	HGA-4512Z	**1 440**	1 765	2 140	500	7	350	3/4"	5	1/4"-1/2"	27	41	**2 177**
	1x Scroll	**MDM-SG-1009A**	400V 3N ~ 50Hz*	1 1/4	ZS09	**2 135**	2 585	3 095	1 100	2	500	1"	5	1/4"-5/8"	34	40	**3 549**
		MDM-SG-1015A	400V 3N ~ 50Hz*	2	ZB15	**3 340**	4 050	4 860	1 800	5	800	1"	5	3/8"-5/8"	43	37	**3 952**
		MDM-SG-1021A	400V 3N ~ 50Hz*	3	ZB21	**5 080**	6 140	7 365	2 500	7	1 200	1"	5	3/8"-3/4"	53	40	**4 403**
		MDM-SG-1029A	400V 3N ~ 50Hz	4	ZB29	**6 635**	8 020	9 610	3 200	10	1 500	1 1/4"	5	3/8"-7/8"	53	40	**4 957**
		MDM-SG-1038A	400V 3N ~ 50Hz	5	ZB38	**8 540**	10 380	12 445	4 100	13	1 950	1 1/4"	5	3/8"-7/8"	68	43	**5 430**
		MDM-SG-1045A	400V 3N ~ 50Hz	6	ZB45	**10 130**	12 270	14 715	4 700	13	2 500	1 1/4"	5	3/8"-1 1/8"	70	43	**5 939**

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Rotary or scroll compressor | R-449A

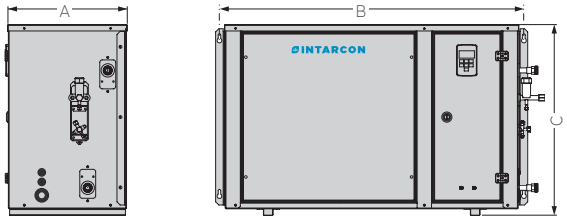
Refrigerant	Compressor	Series / Model	Power supply	Compressor		Cooling capacity (W) [1] Evaporation temperature				Input power (W)	Max. current (A)	Condensing flow (l/h)	Hydraulic connection	Pressure drop (kPa) [2]	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) [3]	Price (€)
				HP	Model	-35 °C	-30 °C	-25 °C	-20 °C									
R-449A	1x R.	**BDM-PG-0004A**	230V I+N ~ 50Hz	1	HGA-2446Z	470	**615**	785	985	600	5	150	3/4"	5	1/4"-1/2"	23	45	**2 591**
	1x Scroll	**BDM-SG-1006A**	400V 3N ~ 50Hz	2	ZF06	1 195	**1 525**	1 910	2 360	1 500	5	550	3/4"	5	1/4"-5/8"	45	39	**5 160**
		BDM-SG-1009A	400V 3N ~ 50Hz	3	ZF09	1 620	**2 070**	2 590	3 210	1 900	6	700	3/4"	5	3/8"-3/4"	54	44	**5 907**
		BDM-SG-1011A	400V 3N ~ 50Hz	3 1/2	ZF11	2 045	**2 610**	3 275	4 050	2 300	8	850	3/4"	5	3/8"-3/4"	55	45	**6 151**
		BDM-SG-2013A	400V 3N ~ 50Hz	4	ZF13	2 325	**2 970**	3 715	4 595	2 500	9	950	1"	5	3/8"-7/8"	55	47	**6 367**
		BDM-SG-2015A	400V 3N ~ 50Hz	5	ZF15	2 850	**3 640**	4 560	5 640	3 300	10	1 200	1"	5	3/8"-7/8"	73	47	**6 979**
		BDM-SG-2018A	400V 3N ~ 50Hz	6	ZF18	3 375	**4 310**	5 400	6 685	3 900	14	1 500	1"	5	3/8"-1 1/8"	78	49	**7 703**
		BDM-SG-2025A	400V 3N ~ 50Hz	8	ZF25	4 265	**5 430**	6 795	8 400	4 200	16	1 750	1 1/4"	5	3/8"-1 1/8"	78	52	**9 192**

DIMENSIONS

0 series



1 and 2 series



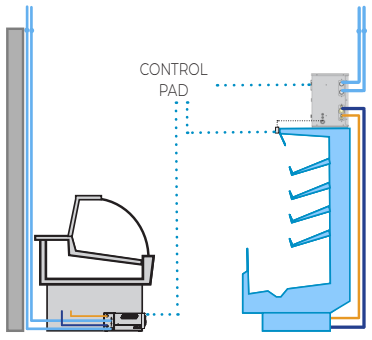
Dimensions in mm.

Dimensions (mm)	A	B	C
1 series	355	832	531
2 series	375	957	600

[1] Cooling capacity at nominal performances refer to operation at evaporation temperature -10 °C (PT) and -30 °C (NT), water temperature of 40 °C, 10 K super-heating and 3 K sub-cooling.
[2] Condenser pressure drop in water circuit.
[3] Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).
* Available units with 230V 50Hz power supply.

Installation scheme

Waterloop series motor condensers can be installed on the furniture, on the floor or anchored at the wall.



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REFRIGERATION CALCULATION SOFTWARE

Electronic regulation

All our units incorporates state-of-the-art electronic controls, which ensures the safety of the cold room and care for the environment and the refrigeration equipment.

Features / Control	XM670K	XW270K	XH240K	XW60LH	IC121CX
Cold room temperature control	○	●	●	●	
Digital control of condensing temperature	●	●		●	
Cold room relative humidity control			●		
Time and temperature fast cooling cycle	●				
Time and temperature defrost cycle	●	●		●	
Stop control with gas collection (pump-down)	●				
Energy save night operating mode	●	●		●	
Time program with internal clock	●				
Digital condensing temperature control	●	●			
Proportional control of condensation with floating set-point	●				
Door opening contact	●	●		●	
Recording of max. and min. temperatures		●		●	
Maintenance quick access menu	●				
Available additional functions:					
- Cold room light	●	●		●	
- External alarm	●	●			
- Heating resistance control	●	●	●		
- Safety heating	●	●			
Units synchronization	●				
RS485 Modbus connection	●				
TTL Modbus connection (optional XJ485 connector)		●	●	●	●
Glycol/water return temperature control					●
Temperature/condensing pressure control					●
Supply temperature control with activation of frost protection resistor (HFC models only) and/or compressor stop.					●
Energy save mode activated by digital input (without internal clock)					●
Hydraulic group control (1 pump only) with functionalities:					
- Flow detector					●
- Pump failure					●
Condensation fan control with functionalities:					
- Analogue output for fan speed					●
- Fan failure					●

Complete features of electronic controllers available at: www.intarcon.com

Self-diagnosis

The new XM670K electronics incorporate advanced self-diagnostic algorithms to detect anomalous operation, such as ice accumulation in the evaporator, or lack of gas. It also detects component malfunctions (defrosting resistors, fans or compressor) or probe failures, in anticipation of a potential break in the cold room.

XM670K

Standard / optional* control of:

- CV-NPD/CR-NPD/DM*/CC/CWF/SF/SH/DF*/DH*

XW270K

Standard control of:

- CR-ND / CV-NN / CR-NN

XH240K

Standard control of:

- HSF / VSF / VSH

XW60LH

Standard control of:

- CV-LD / CP-ND

IC121CX

Standard control of:

- WF

Sales terms

Except in case of agreement with INTARCON, the following general sales terms prevail.

Price
The prices indicated in this list, except for typographical errors, are retail prices with cash payment, do not include VAT or indirect taxes, and will remain in force during the period of validity of this catalogue or until a new edition.

Installation
The buyer admits that INTARCON's products are capital goods for integration in a refrigeration installation. To that effect, the buyer assumes obedience to any applicable law and to guarantee the quality of the installation, which, in any case, is to be done by an authorised installer.

Orders
The orders are to be placed in writing and to be confirmed by the seller through a pro forma invoice indicating the shipping date. The seller reserves the right to refuse an order. Once manufacturing has started, no cancellations will be accepted.

Packaging
Prices include standard packaging for road transport, not suitable for overseas transport.

Delivery
The delivery of INTARCON goods is according to FCA INTARCON (Pl Los Santos, 14900 Lucena - Spain) according to Incoterms 2020 of the ICC. The only accepted delivery claims are those received in written on the delivering note within 24 hours from the delivery.

Refunds
No refunds will be accepted without prior authorisation from the manufacturer and, in any case, an amount no less than 10 % of the purchasing price will be deducted as a return cost.

Warranty
The seller guarantees the product against any manufacturing default for 24 months from delivering date.

During the warranty period the manufacturer will cover the repair of the product in its facilities, the replacement of the product or the supply of spare parts for defective components, which is less burdensome and technically feasible. The cost and taxes on the refrigerant are expressly excluded from the warranty coverage when it has not been supplied by the manufacturer in hermetically sealed appliances. The warranty does not cover on-site labour for the replacement of the product or spare parts, nor the indirect damages or consequential losses that may be attributed to the malfunction of the product. Specifically, the manufacturer may not be responsible for the Tax on Fluorinated Gases stipulated in Law 16/2013, emitted into the atmosphere as a result of a leakage of a refrigeration unit subject to a tightness and resistance test by the refrigeration installer and a periodic leak control according to Regulations 573-2024 on F-Gas.

Payment
Unless agreement with the manufacturer, the payment of the invoices will be in cash. The seller of the goods reserves the right to block delivery of the orders in the case that any risk in payment is perceived.

Lawsuits
INTARCON's product trade is ruled by Spanish laws. Any conflict or argument is to be submitted to the judgment of the Córdoba Chamber of Commerce. In case of disagreement, both parties will relinquish to any jurisdiction to which may pertain and they will submit to the Court of Lucena (Córdoba) Spain.

2025 edition

Rate effective from the 1st of january 2025 until new edition. Edited by INTARCON.
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INTARCON reserves the right to modify the technical and constructive characteristics of the units without prior notice.

Version: 25.07.14

Package dimensions

Series		Model	Standard packaging (road transport)						Reinforced packaging (marine transport)					
			Package dimensions (mm)			Package/s dimensions (mm)			Package dimensions (mm)			Package/s dimensions (mm)		
			Length	Width	Height	Length	Width	Height	Length	Width	Height	Length	Width	Height
R-290	COMMERCIAL MONOBLOCKS	CV-NPD-1	1 240	650	1 065	-	-	-	1 240	650	1 065	-	-	-
		CV-NPD-2	1 240	800	1 065	-	-	-	1 240	800	1 065	-	-	-
		CV-NPD-3	1 240	1 000	1 065	-	-	-	1 240	1 000	1 065	-	-	-
		CR-NPD-1	1 300	830	1 055	-	-	-	1 300	830	1 055	-	-	-
		CR-NPD-2	1 380	1 130	1 055	-	-	-	1 380	1 130	1 055	-	-	-
		CR-NPD-3	1 380	1 380	1 055	-	-	-	1 380	1 380	1 055	-	-	-
		CV-LD-0	790	520	995	-	-	-	790	520	995	-	-	-
		CV-LD-1	1 090	520	1 225	-	-	-	1 090	520	1 225	-	-	-
		CV-LD-2	1 090	740	1 265	-	-	-	1 090	740	1 265	-	-	-
		CR-ND-0	960	725	705	-	-	-	960	725	705	-	-	-
		CR-ND-1	990	960	845	-	-	-	990	960	845	-	-	-
		CR-ND-2	990	960	845	-	-	-	990	960	845	-	-	-
		CP-ND-0/1	1 050	925	600	-	-	-	1 140	1 010	710	-	-	-
	WATERLOOP SYSTEM	DM-ND-0	1 090	510	615	-	-	-	1 090	510	615	-	-	-
		DM-ND-1	1 340	540	765	-	-	-	1 340	540	765	-	-	-
		IB-ND-0	810	560	360	-	-	-	855	605	420	-	-	-
		IB-ND-1	810	560	360	-	-	-	855	605	420	-	-	-
		IB-ND-2	1 160	560	360	-	-	-	1 205	605	420	-	-	-
		IB-ND-3	1 860	650	360	-	-	-	1 900	695	420	-	-	-
		CC-ND/SD-1	1 690		750	-	-	-	1 735	655	1 040	-	-	-
		CC-ND/SD-2	1 990	610	750	-	-	-	2 035	655	1 040	-	-	-
		WF-SD-6	1 720	610	970	-	-	-	1 770	660	1 030	-	-	-
		WF-SD-7	1 820	710	1 250	-	-	-	1 865	755	1 310	-	-	-
		CWF-0/1	1 290	510	755	-	-	-	1 335	555	790	-	-	-
		CWF-2	1 290	510	985	-	-	-	1 335	555	790	-	-	-
		CWF-3	1 390	590	1 245	-	-	-	1 440	640	1 310	-	-	-
		CWF-4	1 390	590	1 495	-	-	-	1 440	640	1 520	-	-	-
		CWF-6	1 820	710	1 250	-	-	-	1 865	755	1 310	-	-	-
		CWF-8	1 820	710	1 500	-	-	-	1 865	755	1 520	-	-	-
A2L	COMMERCIAL MONOBLOCKS	CV-NN- 0	790	520	995	-	-	-	790	520	995	-	-	-
		CV-NN- 1	1 090	520	1 225	-	-	-	1 090	520	1 225	-	-	-
		CV-NN- 2	1 090	740	1 265	-	-	-	1 090	740	1 265	-	-	-
		CV-NN- 3	1 040	855	1 345	-	-	-	1 040	855	1 345	-	-	-
		CR-NN-0	960	725	705	-	-	-	960	725	705	-	-	-
		CR-NN-1	990	960	845	-	-	-	990	960	845	-	-	-
		CR-NN-2	990	960	845	-	-	-	990	960	845	-	-	-
		CR-NN-3	1 205	1 050	865	-	-	-	1 205	1 050	865	-	-	-
	SPLIT SYSTEMS	SF-NN-11	1 340	540	1 005	-	-	-	1 385	585	1 050	-	-	-
		SF-NN-12	1 340	540	1 005	-	-	-	1 385	585	1 050	-	-	-
		SF-NN-13	1 340	540	765	1 860	650	360	1 385	585	810	1 900	695	420
		SH-NN-1	1 340	540	1 005	-	-	-	1 385	585	1 050	-	-	-
		SH-NN-2	1 340	540	1 005	-	-	-	1 385	585	1 050	-	-	-
		SH-NN-3	1 340	540	765	1 860	650	360	1 385	585	810	1 900	695	420

Series		Model	Standard packaging (road transport)						Reinforced packaging (marine transport)					
			Package dimensions (mm)			Package/s dimensions (mm)			Package dimensions (mm)			Package/s dimensions (mm)		
			Length	Width	Height	Length	Width	Height	Length	Width	Height	Length	Width	Height
HFC	LOW NOISE SPLIT SYSTEMS	SF-N-0/00	810	540	595	-	-	-	855	585	860	-	-	-
		SF-N-1/11	1 290	510	755	-	-	-	1 335	600	1 040	-	-	-
		SF-N-2/12	1 290	510	755	-	-	-	1 335	600	1 040	-	-	-
		SF-N-3/13	1 290	510	755	1 860	650	360	1 335	555	790	1 900	695	420
		SF-N-4/23	1 290	510	985	1 860	650	360	1 335	555	1 040	1 900	695	420
		SF-N-24	1 290	510	985	2 165	635	450	1 335	555	1 040	2 170	640	520
		SF-N-34	1 390	590	1 245	2 165	635	450	1 440	640	1 310	2 170	640	520
		SF-Q-10	1 290	510	755	1 040	710	700	1 335	555	790	1 085	755	970
		SF-Q-20	1 290	510	985	1 040	710	700	1 335	555	1 040	1 085	755	970
		SF-Q-21	1 290	510	985	1 390	710	700	1 335	555	1 040	1 435	755	970
		SF-Q-22	1 290	510	985	1 690	710	700	1 335	555	1 040	1 735	755	970
		SF-Q-32	1 390	590	1 245	1 690	710	700	1 440	640	1 310	1 735	755	970
		SF-Q-33	1 390	590	1 245	2 240	710	830	1 440	640	1 310	2 285	755	1 080
		SF-Q-34	1 390	590	1 245	2 740	710	830	1 440	640	1 310	2 785	755	1 080
		SF-Q-43	1 390	590	1 495	2 240	710	830	1 440	640	1 550	2 285	755	1 080
		SF-Q-44	1 390	590	1 495	2 740	710	830	1 440	640	1 550	2 785	755	1 080
		SF-D-11	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		SF-D-12	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		SF-D-13	1 290	510	755	1 910	1 040	465	1 335	555	790	1 955	1 085	510
		ASF-DG-1016 y 1018	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		ASF-DG-1024 y 1034	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		ASF-DG-1038	1 290	510	755	1 910	1 040	465	1 335	555	790	1 955	1 085	520
		SF-D-2/23	1 290	510	985	1 910	1 040	465	1 335	555	1 040	1 955	1 085	520
		SF-D-24	1 290	510	985	2 270	1 140	515	1 335	555	1 040	2 320	1 190	590
		SF-D-3	1 390	590	1 245	1 910	1 040	465	1 440	640	1 310	1 955	1 085	520
		SF-D-34	1 390	590	1 245	2 270	1 140	515	1 440	640	1 310	2 320	1 190	590
		SF-D-4/44	1 390	590	1 495	2 270	1 140	515	1 440	640	1 560	2 320	1 190	590
		VSF-0/00	850	660	1 020	-	-	-	895	705	1 070	-	-	-
		VSF-GY-10015	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		VSF-11/VSF-GG-1014	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		VSF-12/VSF-GG-1024 y 1034	1 290	890	1 020	-	-	-	1 335	935	1 100	-	-	-
		VSF-2/23	1 290	510	985	1 910	1 040	465	1 335	555	1 040	1 955	1 085	520
		VSF-GY-33108	1 390	590	1 245	1 910	1 040	465	1 440	640	1 310	1 955	1 085	520
		VSF-GG-3060	1 390	590	1 245	2 270	1 140	515	1 440	640	1 310	2 320	1 190	590
	SPLIT SYSTEMS	SH-N-0/00	810	540	765	-	-	-	855	585	860	-	-	-
		SH-N-1/11	810	540	835	-	-	-	855	585	860	-	-	-
		SH-N-2/22	1 040	540	925	-	-	-	1 205	590	940	-	-	-
		SH-N-3/33	1 240	740	685	1 860	650	360	1 285	785	720	1 900	695	420
		SH-N-4/43	1 240	740	775	1 860	650	360	1 285	785	820	1 900	695	420
		SH-N-44	1 240	740	775	2 165	635	450	1 285	785	820	2 170	640	520
		SH-Q-30	1 240	740	685	1 040	710	700	1 285	785	720	1 085	755	970
		SH-Q-40	1 240	740	775	1 040	710	700	1 285	785	820	1 085	755	970
		SH-Q-41	1 240	740	775	1 390	710	700	1 285	785	820	1 435	755	970
		SH-Q-42	1 240	740	775	1 690	710	700	1 285	785	820	1 735	755	970
		SH-Q-52	1 540	870	825	1 690	710	700	1 585	915	860	1 735	755	970
		SH-Q-53171/53215	1 540	870	825	1 690	710	700	1 585	915	860	1 735	755	970
		SH-Q-53	1 540	870	825	2 240	710	830	1 585	915	860	2 285	755	1 080
		SH-Q-54	1 540	870	825	2 740	710	830	1 585	915	860	2 785	755	1 080
		SH-D-1/11	920	840	1 015	-	-	-	965	925	1 100	-	-	-
		SH-DG-2014 a 2018	1 040	920	1 015	-	-	-	1 085	965	1 380	-	-	-
		SH-DG-2024	1 040	920	1 300	-	-	-	1 085	965	1 380	-	-	-
		SH-D-22	1 040	920	1 300	-	-	-	1 085	965	1 380	-	-	-
		SH-D-3	1 240	1 150	1 300	-	-	-	1 285	1 195	1 380	-	-	-
		SH-D-33	1 240	740	685	1 910	1 040	465	1 285	785	720	1 955	1 085	520
		SH-D-4/43	1 240	740	775	1 910	1 040	465	1 285	785	820	1 955	1 085	520
		SH-D-44	1 240	740	775	2 270	1 140	515	1 285	785	820	2 320	1 190	590
	CONDENSING UNITS	DF - 0	810	540	595	-	-	-	855	585	640	-	-	-
		DF - 1	1 290	510	755	-	-	-	1 335	555	790	-	-	-
		DF - 2	1 290	510	985	-	-	-	1 335	555	1 040	-	-	-
		DF - 3	1 390	590	1 245	-	-	-	1 440	640	1 310	-	-	-
		DH - 0	810	540	525	-	-	-	855	585	640	-	-	-
		DH - 1	810	540	595	-	-	-	855	585	640	-	-	-
		DH - 2	1 040	540	685	-	-	-	1 085	585	720	-	-	-
		DH - 3	1 240	740	685	-	-	-	1 285	785	720	-	-	-
		DH - 4	1 240	740	775	-	-	-	1 285	785	820	-	-	-
		DH - 5	1 540	870	825	-	-	-	1 585	915	860	-	-	-
	WATERLOOP SYSTEM	DM - 0	600	500	380	-	-	-	640	540	440	-	-	-
		DM - 1	1 000	420	680	-	-	-	1 040	460	740	-	-	-
		DM - 2	1 170	450	760	-	-	-	1 210	490	820	-	-	-

Notes

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