

INTEGRATED

60 Hz

Catalogue_2019

- Commercial Range -

REFRIGERATION UNITS



Commercial monoblocks



- ❄ Tropicalized design for high ambient temperature up to 45°C
- ❄ Thermostatic expansion valve
- ❄ Hot gas defrosting
- ❄ Refrigerant load lower than 2,5 kg
- ❄ Refrigeration units with centrifugal or axial condensing

Description

Wall-mounting and roof-top monoblock units for small-size chiller and freezer cold rooms at positive and negative temperature, for their installation on the wall or roof.

Features

- R-404A refrigerant load, below 2,5 kg.
- Hermetic reciprocating compressors.
- High and low pressure switches.
- Thermostatic expansion valve (except for MCV and MCR up to 2026 featuring capillary expansion).
- Hot gas defrosting.
- Stainless steel draining tray.
- Condensed water evaporation.
- Cold room light and door micro-switch cable.
- Door heater cable (only for BCR series).
- Removable insulation pad included (CV). Evaporator case made in sandwich panel, with 50 mm polyurethane insulation, internally covered in steel sheet (CR).
- Multifunctional electronic control.

Installation scheme



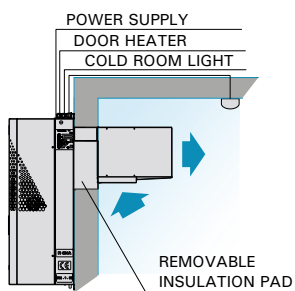
Control pad

Monoblock units feature XWING electronic control as standard.



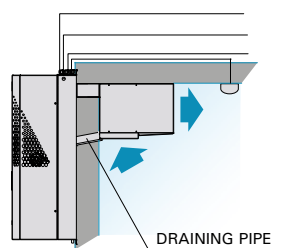
- Temperature control with maximum and minimum temperature value recording.
- Fast-freezing function (Jet cool).
- Night operation mode.

Installation schemes



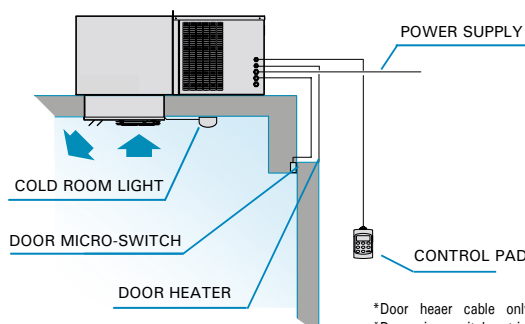
Plug-in mounting

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



Drop-in mounting

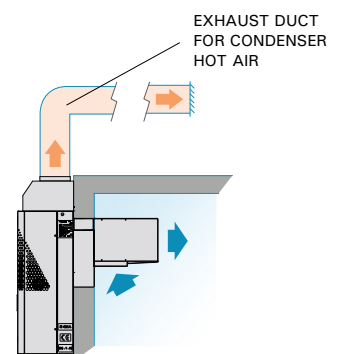
Just by making a frame in the cold room wall for drop-in mounting, to install the unit before placing the cold room roof panel.



*Door heater cable only in negative temperature series.
*Door micro-switch not included

Centrifugal version

Centrifugal monoblocks units feature a centrifugal motor-fan to duct outdoors the hot condensing air.



Technical features

60Hz, R-404A

Rooftop monoblock units

POSITIVE TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient							
			W	BTU/h	m³					
MCR-NF-1012 + B2	1/2	115V - I	850	2.900	8,5	0,73	600	575	73	29
MCR-NF-1018 + B2	3/4	115V - I	1.250	4.265	14	0,94	600	575	82	34
MCR-NF-1024 + B2	1	115V - I	1.375	4.692	16	1,24	600	575	83	35
MCR-NF-2024 + B2	1	115V - I	2.115	7.217	24	1,40	1.150	1.150	98	36
MCR-NF-2026 + B2	1 1/4	115V - I	2.325	7.933	27	1,42	1.150	1.150	99	38
MCR-NF-2034 + B1	1 1/2	220V - I	2.555	8.718	33	1,95	1.150	1.150	99	40
NEGATIVE TEMPERATURE			-20 °C / 35 °C ambient							
	HP	Power supply	-20 °C / 35 °C ambient							
			W	BTU/h	m³					
BCR-NF-1034 + B2	1 1/4	115V - I	845	2.883	5,8	1,11	600	575	84	40
BCR-NF-2034 + B2	1 1/4	115V - I	1.435	4.896	7,8	1,22	1.150	1.150	135	41
BCR-NF-2074 + B1	2 1/2	220V - I	1.660	5.664	17	2,17	1.150	1.150	145	43

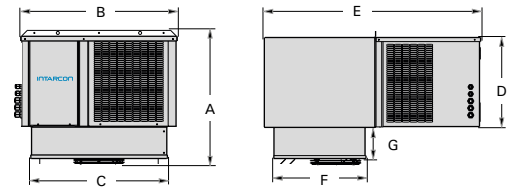
Wall monoblock units

POSITIVE TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient							
			W	BTU/h	m³					
MCV-NF-1012 + B2	1/2	115V - I	840	2.866	8,2	0,73	550	575	60	30
MCV-NF-1018 + B2	3/4	115V - I	1.360	4.641	14	0,94	550	575	69	34
MCV-NF-1024 + B2	1	115V - I	1.550	5.289	16	1,24	550	575	70	35
MCV-NF-2024 + B2	1	115V - I	1.965	6.705	23	1,40	1.050	1.000	88	36
MCV-NF-2026 + B2	1 1/4	115V - I	2.205	7.524	26	1,45	1.050	1.000	89	38
MCV-NF-2034 + B1	1 1/2	220V - I	2.470	8.428	31	1,65	1.050	1.000	89	40
MCV-NF-3034 + B1	1 1/2	220V - I	2.755	9.400	35	1,74	1.400	1.350	117	39
MCV-NF-3038 + B1	1 3/4	220V - I	3.095	10.561	41	2,31	1.400	1.350	114	40
NEGATIVE TEMPERATURE			-20 °C / 35 °C ambient							
	HP	Power supply	-20 °C / 35 °C ambient							
			W	BTU/h	m³					
BCV-NF-1034 + B2	1 1/4	115V-I	830	2.832	6,1	1,11	550	575	60	40
BCV-NF-2034 + B2	1 1/4	115V-I	995	3.395	7,7	1,22	1.050	1.000	89	41
BCV-NF-2074 + B1	2 1/2	220V-I	1.550	5.289	17	2,17	1.050	1.000	102	43
BCV-NF-3074 + B1	2 1/2	220V-I	1.905	6.500	21	2,36	1.400	1.350	131	43
BCV-NF-3086 + B1	3	220V-I	2.220	7.575	28	2,96	1.400	1.350	117	40
BCV-NF-3096 + B3	3 1/2	220V-III*	2.610	8.906	32	2,49	1.400	1.350	129	50

As an option

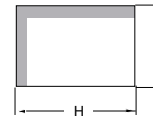
- Expansion valve (MCV / MCR 1012 to 2026).
- Door micro-switch.
- Protection system for voltage drop (mono-phase version).
- Protection system for voltage drop and phase failure (tri-phase version).
- Change to 460V-III-60 Hz (+ B4 code) in models with *.

Dimensions

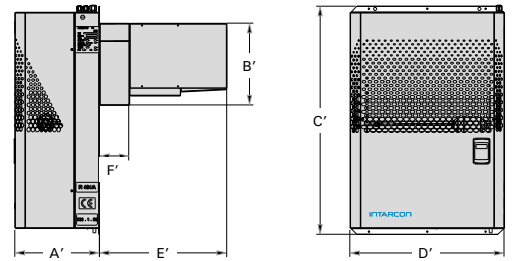


Dimensions (mm)	A	B	C	D	E	F	G
series 1	574	665	582	385	850	379	135
series 2	677	835	756	469	850	379	135

PLUG-IN FRAME

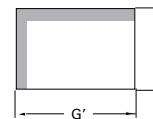


Dimensions (mm)	H	I
series 1	588	385
series 2	762	385

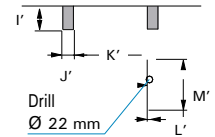


Dimensions (mm)	A'	B'	C'	D'	E'	F'
series 1	340	330	880	400	514	122
series 2	340	330	920	620	514	122
series 3	365	470	920	735	514	122

PLUG-IN FRAME



DROP-IN FRAME



Dimensions (mm)	G'	H'	I'	J'	K'	L'	M'
series 1	380	335	75	41	295	13	233
series 2	600	335	75	36	523	13	233
series 3	710	475	75	41	611	22	356

Bases for calculating cooling needs

Nominal technical features shown in the tables are related to operation at cold room temperature of 0°C (positive temperature), -20°C (negative temperature), and ambient temperature of 35°C.

SPL: Sound pressure level shown in dB(A) on open field at 10 m from the source.

Centrifugal split units



Description

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

Features

- Minimal R-404A refrigerant load.
- Hermetic reciprocating compressor (noise insulation in 3-phases models).
- High and low pressure switches.
- Refrigerant preload for 15m piping.
- Inbuilt thermostatic expansion valve and solenoid valve.
- Electrical heater defrosting (CF and QF models) or air defrosting (CDF models).
- Stainless steel draining tray.
- Flare-type cooling connections (except for 3/8"-7/8" and 1/2" 7/8") with service valves.
- 10 metres electrical wiring included (except for series 4).
- MCB protection.
- Multifunctional electronic control with remote keyboard and digital regulation of condensing pressure.

SH-CF series

Centrifugal condensing unit and low-profile evaporating unit.

SH-CQF series

Centrifugal condensing unit and cubic evaporating unit.

SH-CDF series

Centrifugal condensing unit and double flow evaporating unit.

SH-NF series

Axial condensing unit and low-profile evaporating unit.

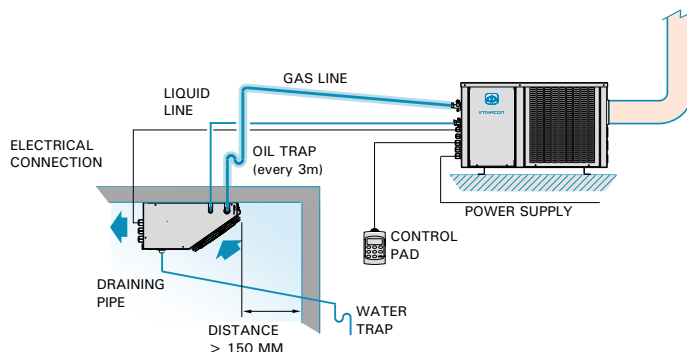
SH-QF series

Axial condensing unit and cubic evaporating unit.

SH-DF series

Axial condensing unit and double-flow evaporating unit.

Installation scheme



Maximum vertical distance between units of 15 metres in case the condensing unit is placed in a higher level than the evaporating unit, and 6 metres otherwise.

* 20% minimum inclination of draining pipe for negative temperature models.

- * Factory-tested systems with no need for on-site tests
- * Tropicalized design for high ambient temperature up to 45°C
- * Inbuilt thermostatic expansion valve
- * Fast freezing function
- * Axial or centrifugal condensing units versions

Control pad

Monoblock units feature XWING electronic control as standard.



- Remote control keyboard with digital display.
- Temperature control with maximum and minimum temperature value recording.
- Fast-freezing function (Jet cool) and Night operation mode.

Axial fan version

Split systems can be equipped with an axial condensing unit, for installations where ducting outdoors the hot condensing air is not required.

Digital control of condensing pressure

As standard, it protects the unit from outdoor negative temperatures. For operating under long-lasting outdoor negative temperatures is recommended to install the proportional control of condensing pressure (as an option in CF-4, CQF-4, CDF-4, NF-3, NF-4, QF, DF-3 y DF-4 series).

Crankcase heater (as an option)

It is recommended to include a crankcase heater in outdoors installed units.

Electrical connections

Split units feature as standard 10 metres electrical wiring (except for series 4).

Voltage	115V - I - 60Hz 230V - I - 60Hz	220V - III - 60Hz 460V - III - 60Hz
Probes	4x 1 mm ²	
Electrical control	2x 1 mm ² +	3x 1 mm ²
Defrosting	2x 1,5 mm ² + T	3x 1,5 mm ² + T
Thermostat	2x 1 mm ²	
Door switch*	2x 1 mm ² (+ 2x 1 mm ² baja temp)	
Cold room light*	2x 1 mm ² + T	

* not included

Technical features

60Hz, R-404A

Centrifugal or axial condensing unit and low profile evaporating unit

POSITIVE TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Cooling connections Liq - Gas	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient								
			W	BTU/h	m³						
MSH-CF-1018 + B2	3/4	115V-I	1.340	4.572	14	0,94	550	575	1/4"-1/2"	53 + 16	34
MSH-CF-1024 + B2	1	115V-I	1.545	5.272	18	1,24	550	575	1/4"-1/2"	54 + 16	35
MSH-CF-2024 + B2	1	115V-I	2.025	6.910	22	1,40	1.050	1.150	3/8"-5/8"	65 + 24	36
MSH-CF-2026 + B2	1 1/4	115V-I	2.235	7.626	26	1,42	1.050	1.150	3/8"-5/8"	66 + 24	38
MSH-CF-2034 + B1	1 1/2	220V-I	2.465	8.411	28	1,65	1.050	1.150	3/8"-5/8"	66 + 24	40
MSH-CF-3034 + B1	1 1/2	220V-I	3.040	10.373	36	1,74	2.325	1.500	3/8"-5/8"	74 + 45	39
MSH-CF-3038 + B1	1 3/4	220V-I	3.425	11.687	45	2,31	2.325	1.500	3/8"-5/8"	71 + 45	40
MSH-CF-4048 + B3	2	220V-III*	4.420	15.082	66	2,69	2.325	3.500	3/8"-3/4"	95 + 45	41
NEGATIVE TEMPERATURE			-20 °C / 35 °C ambient								
			W	BTU/h	m³						
BSH-CF-1034 + B2	1 1/4	115V-I	820	2.798	4,5	1,11	550	575	1/4"-1/2"	56 + 16	40
BSH-CF-2034 + B2	1 1/4	115V-I	1.035	3.532	5,5	1,22	1.050	1.150	3/8"-5/8"	66 + 24	41
BSH-CF-2074 + B1	2 1/2	220V-I	1.600	5.459	10	2,17	1.050	1.150	3/8"-5/8"	79 + 24	43
BSH-CF-3074 + B1	2 1/2	220V-I	2.070	7.063	18	2,36	2.325	1.500	3/8"-5/8"	87 + 45	43
BSH-CF-3086 + B1	3	220V-I	2.450	8.360	30	2,96	2.325	1.500	3/8"-5/8"	87 + 45	40
BSH-CF-3096 + B3	3 1/2	220V-III*	2.900	9.895	37	2,35	2.325	1.500	3/8"-3/4"	85 + 45	50
BSH-CF-4136 + B3	5	220V-III*	4.120	14.058	67	4,76	2.325	3.500	3/8"-7/8"	107 + 45	46

Centrifugal or axial condensing units and cubic evaporating unit

POSITIVE TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Cooling connections Liq - Gas	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient								
			W	BTU/h	m³						
MSH-CQF-40048 + B3	2	220V-III*	4.625	15.781	56	2,14	2.000	3.500	3/8"-3/4"	95 + 43	41
MSH-CQF-41060 + B3	3	220V-III*	5.855	19.978	91	3,13	2.125	3.500	1/2"-3/4"	97 + 56	38
NEGATIVE TEMPERATURE			-20 °C / 35 °C ambient								
			W	BTU/h	m³						
BSH-CQF-30096 + B3	3 1/2	220V-III*	3.075	10.492	45	2,56	2.000	1.500	3/8"-3/4"	85 + 43	50
BSH-CQF-42136 + B3	5	220V-III*	4.360	14.877	65	3,35	4.000	3.500	3/8"-7/8"	107 + 72	46

Centrifugal or axial condensing unit and double flow evaporating unit

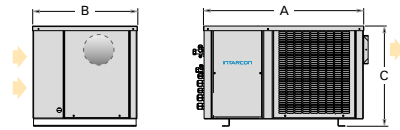
HIGH TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Cooling connections Liq - Gas	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient								
			W	BTU/h	m³						
ASH-CDF-2018 + B2	3/4	115V-I	2.450	8.360	25	1,00	1.200	1.150	1/4"-1/2"	55 + 32	35
ASH-CDF-2024 + B2	1	115V-I	2.800	9.554	39	1,56	2.400	1.150	3/8"-5/8"	55 + 45	36
ASH-CDF-3026 + B2	1 1/4	115V-I	3.300	11.260	46	1,78	2.400	1.500	3/8"-5/8"	74 + 45	38
ASH-CDF-3034 + B1	1 1/2	220V-I	4.165	14.212	58	2,29	2.400	1.850	3/8"-5/8"	74 + 45	41
ASH-CDF-3038 + B1	1 3/4	220V-I	5.255	17.931	68	2,25	2.400	1.850	3/8"-5/8"	71 + 45	40
ASH-CDF-4048 + B3	2	220V-III*	6.565	22.401	87	2,82	2.400	3.500	1/2"-3/4"	95 + 65	41
ASH-CDF-4060 + B3	3	220V-III*	8.855	30.215	115	3,79	5.100	3.500	1/2"-7/8"	97 + 65	37

As an option

- Proportional control of condensing pressure (CF-4, CQF-4, CDF-4, NF-3, NF-4, QF, DF-3 and DF-4 series)
- EC fans in the evaporator (CF and CQF series)
- Protection system for voltage drop (mono-phase version).
- Protection system for voltage drop and phase failure (tri-phase version).
- Inbuilt condensed pump (only for ASH-CDF series)
- Change to 460V-III-60 Hz (+ B4 code) in models with *

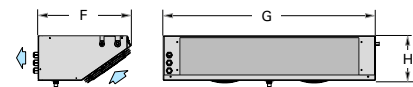
Dimensions

Condensing unit



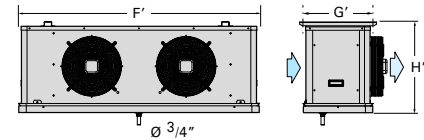
Dimensions (mm)	A	B	C	D	E
series 1	665	435	416	Ø 150	
series 2	835	435	500	Ø 150	
series 3	925	580	515	236	266
series 4	1000	615	585	305	266

Low-profile evaporating unit



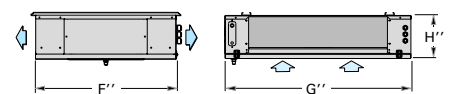
Dimensions (mm)	F	G	H	Evaporator fans
series 1	418	600	200	1x Ø 200
series 2	418	950	200	2x Ø 200
series 3	492	1650	200	3x Ø 250
series 4	492	1650	200	3x Ø 250

Cubic evaporating unit



Dimensions (mm)	F'	G'	H'	Evaporator fans
series 30	882	465	575	1x Ø 350
series 40	882	465	575	1x Ø 350
series 41	1232	465	575	1x Ø 350
series 42	1534	465	575	2x Ø 350

Double flow evaporating unit



Dimensions (mm)	F''	G''	H''	Evaporator fans
ASH-CDF-2018	765	706	243	1x Ø 360
ASH-CDF-2024	765	1056	243	2x Ø 360
serie 3	765	1056	243	2x Ø 360
serie 4	765	1756	243	3x Ø 360

Bases for calculating cooling needs

Nominal technical features shown in the tables are related to operation at cold room temperature of 12°C (high temperature), 0°C (positive temperature), -20°C (negative temperature), and ambient temperature of 35°C

SPL: Sound pressure level shown in dB(A) on open field at 10 m from the source.

Low-noise split units

Sigilus



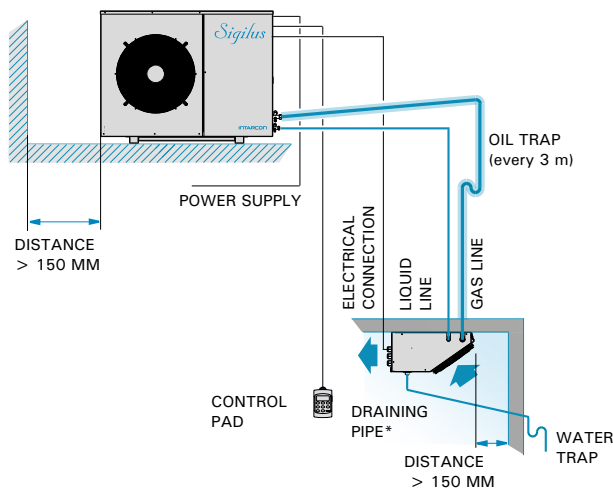
Description

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

Features

- Minimum R-404A refrigerant load.
- Hermetic reciprocating compressor.
- Compressor with double noise insulation.
- L-shape large surface condensing coil (straight for series 1).
- Low-speed and low-noise condensing motor-fans.
- Proportional control of condensing pressure (as an option in NF versions).
- High and low pressure switches.
- Discharge muffler (from 1 HP models) and crankcase heater.
- Liquid receiver, with refrigerant preload for 15m piping.
- Low profile evaporating unit (NF series), cubic type (QF series) or double flow (DF series).
- Inbuilt thermostatic expansion valve and solenoid valve.
- Electrical defrosting (NF and QF series) or air defrosting (DF series).
- Stainless steel draining tray.
- Flare-type cooling connections (except for 3/8" - 7/8") and service valves.
- MCB protection.
- Multifunctional electronic control with remote keyboard and digital condensing control.

Installation scheme



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

- ❄ Factory-tested systems with no need for on-site tests
- ❄ Low-noise condensing unit
- ❄ Tropicalized design for ambient temperatures up to 50°C
- ❄ Thermostatic expansion valve
- ❄ Proportional control of condensing pressure (as an option for NF and DF1 series)

Control pad

Sigilus low-noise split units feature XWING electronic control as standard.



- Remote control keyboard with digital display.
- Temperature control with maximum and minimum temperature value recording.
- Fast-freezing function (Jet cool) and night operation mode.

Triple acoustic insulation

Sigilus condensing units feature a triple acoustic insulation:

- Insulated compressor and separated from air flow.
- Insulated hermetic compressor and discharge muffler.
- Low-noise and low-speed fans mounted on shock-absorbers.

Proportional control of condensing pressure

As standard, **Sigilus** series feature a proportional control of condensing pressure through a fan speed variator for operating under outdoor negative temperatures (as an option for NF and DF-1 series).

Electrical connections

To connect the condensing and evaporating unit, the following cable section need to be taken into account:

Voltage	115V - I - 60Hz 230V - I - 60Hz	220V - III - 60Hz 460V - III - 60Hz
Probes	4x 1 mm ²	
Electrical control	2x 1 mm ² +	3x 1 mm ²
Defrosting	2x 1,5 mm ² + T	3x 1,5 mm ² + T
Thermostat	2x 1 mm ²	
Door switch*	2x 1 mm ² (+ 2x 1 mm ² baja temp)	
Cold room light*	2x 1 mm ² + T	

* optional not included

Technical features

60Hz, R-404A

Low-noise axial condensing unit and low profile evaporating unit

POSITIVE TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Cooling connections Liq - Gas	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient								
			W	BTU/h	m³						
MSF-NF-1018 + B2	3/4	115V - I	1.590	5.425	14	0,94	550	1.700	1/4"-1/2"	67 + 16	23
MSF-NF-2024 + B2	1	115V - I	1.985	6.773	22	1,40	1.050	1.700	3/8"-5/8"	82 + 24	24
MSF-NF-2026 + B2	1 1/4	115V - I	2.175	7.421	26	1,42	1.050	1.700	3/8"-5/8"	83 + 24	27
MSF-NF-2034 + B1	1 1/2	220V - I	2.380	8.121	28	1,65	1.050	1.700	3/8"-5/8"	83 + 24	29
MSF-NF-3038 + B1	1 3/4	220V - I	3.465	11.823	45	2,31	2.325	3.200	3/8"-5/8"	82 + 45	30
MSF-NF-4048 + B3	2	220V - III*	4.325	14.758	62	2,41	2.325	3.600	3/8"-3/4"	84 + 45	30
NEGATIVE TEMPERATURE			-20 °C / 35 °C ambient								
			W	BTU/h	m³						
BSF-NF-2034 + B2	1 1/4	115V - I	960	3.276	5,5	1,22	1.050	1.700	3/8"-5/8"	83 + 16	30
BSF-NF-2074 + B1	2 1/2	220V - I	1.610	5.494	10	2,17	1.050	1.700	3/8"-5/8"	93 + 24	33
BSF-NF-3074 + B1	2 1/2	220V - I	2.090	7.131	18	2,36	2.325	1.700	3/8"-5/8"	93 + 45	33
BSF-NF-3086 + B1	3	220V - I	2.450	8.360	30	2,96	2.325	3.200	3/8"-5/8"	84 + 45	27
BSF-NF-4096 + B3	3 1/2	220V - III*	2.820	9.622	39	2,70	2.325	3.600	3/8"-3/4"	97 + 45	40
BSF-NF-4136 + B3	5	220V - III*	3.805	12.983	61	3,97	2.325	3.600	3/8"-7/8"	100 + 45	34

Low-noise axial condensing units and cubic evaporating unit

POSITIVE TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Cooling connections Liq - Gas	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient								
			W	BTU/h	m³						
MSF-QF-20048 + B3	2	220V - III*	4.350	14.843	63	2,16	2.000	3.700	3/8"-3/4"	84 + 43	30
MSF-QF-21060 + B3	3	220V - III*	5.340	18.221	96	2,86	2.125	3.700	3/8"-3/4"	88 + 56	29
MSF-QF-32086 + B3	4	220V - III*	7.645	26.086	127	3,85	4.000	4.000	1/2"-7/8"	115 + 72	39
MSF-QF-43136 + B3	6 1/2	220V - III*	12.135	41.406	270	6,08	6.000	7.000	1/2"-1 1/8"	135 + 89	36
NEGATIVE TEMPERATURE			-20 °C / 35 °C ambient								
			W	BTU/h	m³						
BSF-QF-20096 + B3	3 1/2	220V - III*	2.985	10.185	51	2,56	2.100	3.700	3/8"-3/4"	97 + 43	40
BSF-QF-22136 + B3	5	220V - III*	4.470	15.252	73	3,45	4.150	3.700	1/2"-1 1/8"	97 + 72	34
BSF-QF-33215 + B3	7 1/2	220V - III*	6.965	23.766	103	5,04	6.200	6.500	1/2"-1 1/8"	147 + 94	40
BSF-QF-34271 + B3	10	220V - III*	8.730	29.788	182	7,04	8.300	6.500	1/2"-1 3/8"	147 + 118	40

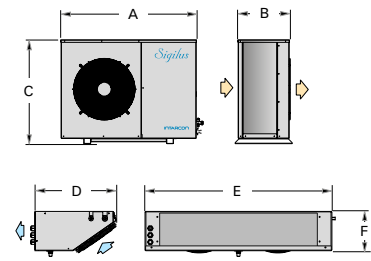
Low-noise axial condensing unit and double flow evaporating unit

HIGH TEMPERATURE	Compressor		Cooling capacity			Nominal input power (kW)	Evap. air flow (m³/h)	Cond. air flow (m³/h)	Cooling connections Liq - Gas	Weight (kg)	SPL dB(A)*
	HP	Power supply	0 °C / 35 °C ambient								
			W	BTU/h	m³						
ASF-DF-1018 + B2	3/4	115V - I	2.590	8.837	25	1,00	1.200	1.700	1/4"-1/2"	67 + 32	23
ASF-DF-1024 + B2	1	115V - I	3.015	10.288	39	1,56	2.400	1.700	3/8"-5/8"	82 + 45	24
ASF-DF-1026 + B2	1 1/4	115V - I	3.910	13.341	46	1,78	2.400	3.200	3/8"-5/8"	83 + 45	27
ASF-DF-1034 + B1	1 1/2	220V - I	4.545	15.508	58	2,29	2.400	3.200	3/8"-5/8"	83 + 45	29
ASF-DF-1038 + B1	1 3/4	220V - I	5.615	19.159	68	2,25	3.975	3.200	3/8"-5/8"	82 + 65	30
ASF-DF-2048 + B3	2	220V - III*	7.095	24.209	87	2,82	3.975	3.600	1/2"-3/4"	84 + 65	30
ASF-DF-3060 + B3	3	220V - III*	9.325	31.818	115	3,79	5.100	6.500	1/2"-7/8"	88 + 65	29
ASF-DF-4086 + B3	4	220V - III*	12.210	41.662	155	5,10	7.800	7.000	5/8"-1 1/8"	115 + 70	39

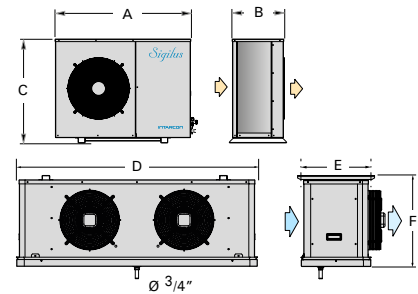
As an option

- Proportional control of condensing pressure through fan speed variator (as standard for QF series and DF-2 series and above)
- Coil protection grille
- EC fans in the evaporator (NF and QF series)
- Protection system for voltage drop (mono-phase version).
- Protection system for voltage drop and phase failure (tri-phase version).
- Inbuilt condensed pump (only for ASF-DF series)
- Change to 460V-III-60 Hz (+ B4 code) in models with *.

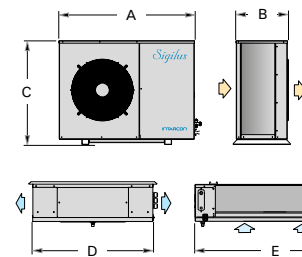
Dimensions



Dimensions (mm)	A	B	C	D	E	F	Evaporators fans
series 1	1030	373	577	418	600	200	1x Ø 200
series 2	1030	373	577	418	950	200	2x Ø 200
series 3	1030	373	577	492	1650	200	3x Ø 254
series 4	1080	416	827	522	1950	250	3x Ø 300



Dimensions (mm)	A	B	C	D	E	F	Evaporators fans
series 20	1080	410	827	882	465	576	1x 350
series 21	1080	410	827	1232	465	576	1x 350
series 22	1080	410	827	1534	465	576	2x 350
series 32	1150	481	1097	1534	465	576	2x 350
series 33	1150	481	1097	1933	465	576	3x 350
series 34	1150	481	1097	2432	465	576	4x 350
series 43	1150	481	1347	1933	465	576	3x 350



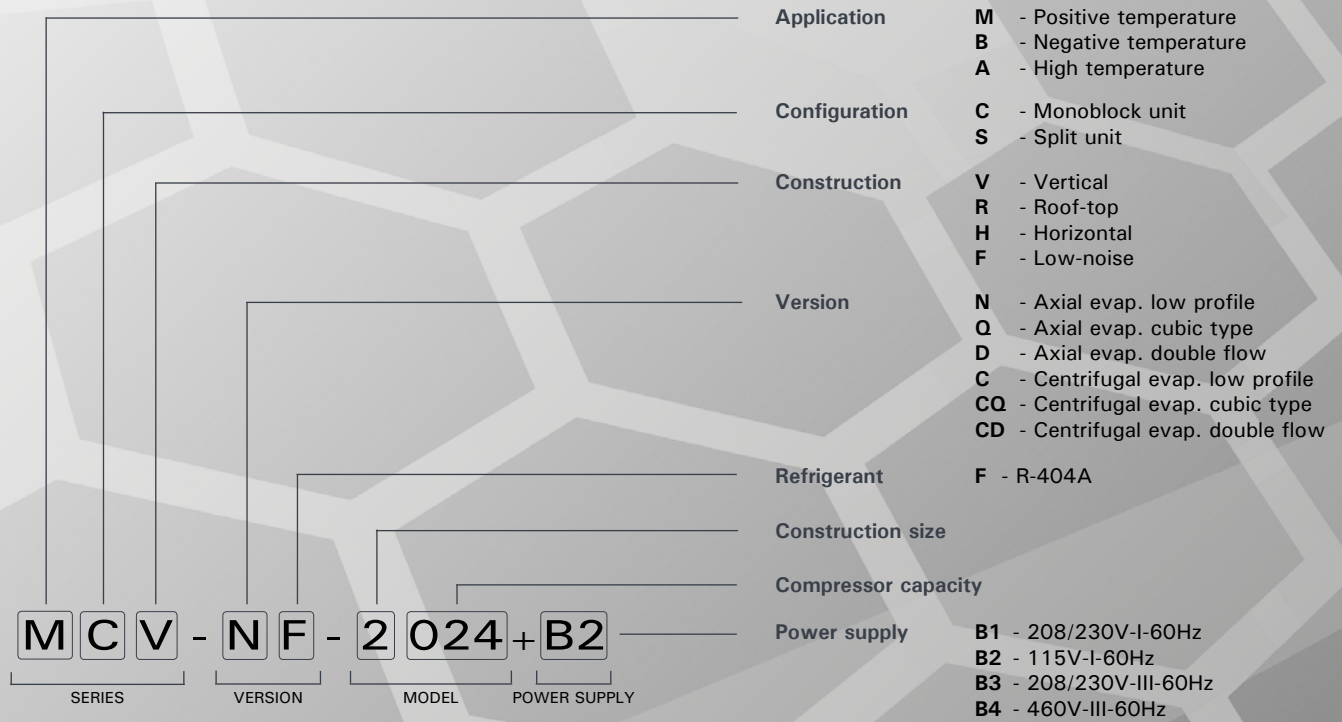
Dimensions (mm)	A	B	C	D	E	F	Evaporators fans
ASF-DF-1018	1030	373	577	765	708	243	1x Ø 360
ASF-DF-1024 a 1034	1030	373	577	765	1056	243	2x Ø 360
ASF-DF-1038	1030	373	577	765	1756	243	3x Ø 360
series 2	1080	410	827	765	1756	243	3x Ø 360
series 3	1150	481	1097	765	1756	243	3x Ø 360
series 4	1150	481	1347	840	2156	283	3x Ø 450

Bases for calculating cooling needs

Nominal technical features shown in the tables are related to operation at cold room temperature of 12°C (high temperature), 0°C (positive temperature), -20°C (negative temperature), and ambient temperature of 35°C.

SPL: Sound pressure level shown in dB(A) on open field at 10 m from the source.

Codification



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