

A2L CONDENSING UNITS LOW ENVIRONMENTAL IMPACT SOLUTIONS

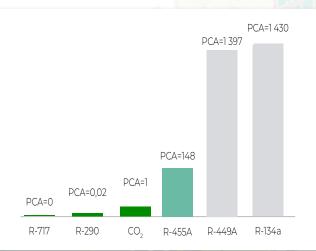
INTARCON's new range of intarCUBE A2L units, presented as the best low greenhouse effect solution for supermarkets and convenience stores. Due to their characteristics and the properties of the refrigerant, they are a long-term solution for refrigeration installations of up to 40 kW.

A2L REFRIGERANT

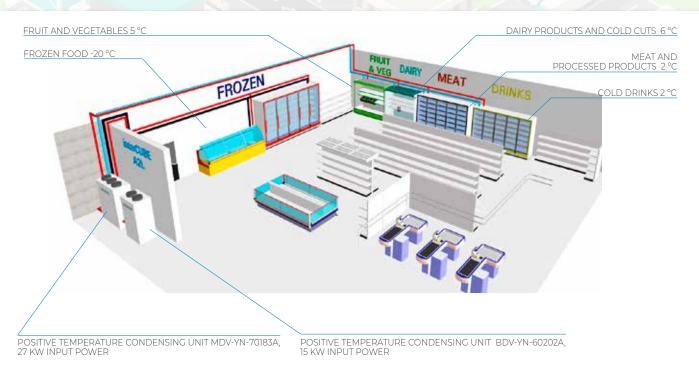
Refrigerants classified as A2L combine low toxicity (class A) with slight flammability (2L), characterised by a reduced flame speed. These refrigerants have been developed as a low environmental impact solution, with a GWP typically below 150, in line with the restrictions imposed by environmental regulations such as the F-Gas Regulation.

Among their technical properties, working pressures similar to traditional HFCs stand out, facilitating their application or retrofit in new systems processes. Due to their low flammability, the use of A2L requires compliance with safety measures such as leak detection, adequate ventilation and a hermetic system design.

Therefore, A2L refrigerants represent an appropriate technical and regulatory solution for small and medium-sized installations, especially in commercial applications, where a transition to low GWP gases is required without compromising safety or performance.



SUPERMARKETS INSTALLATION EXAMPLE



A2L intarCUBE Scroll

The new intarCUBE A2L condensing units are designed to adapt to the real requirements of installations in convenience stores and supermarkets. Its compact and modular design allows easy integration even in small spaces, and can be installed outdoors or in a machine room, with its powered axial or radial version, offering great versatility in new or renovation projects.

A unit designed for energy efficiency, safety and ease of maintenance, with all components ready to work with A2L refrigerants.



By adjustable pressure switches with manual or automatic activation in case of failure.

500 mm (7,000 m³/h) for optimised condensation. Optional radial 150 Pa or enhanced axial up to 80 Pa.



ELECTROMECHANICAL EMERGENCY MANOEUVRE



PRESSURE GAUGES WITH SCALES

Pressure gauges with low dew pressure and liquid bubble indication.for R-455A and R-454C.



ELECTRICAL PANEL AND CONTROL



Large and accessible, with independent circuit breakers and magnetic thermal switches for the compressor and fan.

Ventilation and thermostat inside the panel.



Electronic oil injection ensures precise lubrication of compressors, prevents failures, optimises efficiency and extends the service life of the system.



2 or 3 compressors in an insulated compartment, with rotalock valve included.





FREQUENCY CONVERTER

For INVERTER models, to modulate the capacity of the unit from 15% to 100%.

A2L intarCUBE Scroll























Refrigeration condensing units, with scroll compressor, with axial condensation and compact construction, for positive and negative temperature. Designed for centralised commercial refrigeration applications up to 40 kW, compatible with low-GWP refrigerants R-455A and R-454C.

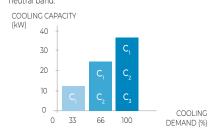
FEATURES

Casing in pre-painted galvanized sheet, with acoustically insulated panels and service access covers. Independent compressor compartment with ATEX extraction fans. Scroll compressors acoustically insulated with soundproof cover. Integrated safety valve in the boiler and in the low-pressure sector. Liquid injection system for negative temperature. Oil separator. Aluminium microchannel condenser coil with Polyester Powder Coating treatment. Axial EC fans. Electrical panel independent of the frigorific compartment. Pressure gauges with low dew pressure and liquid bubble indication. Crankcase heater on all compressors. Electromechanical emergency manoeuvre by adjustable pressure switches with manual or automatic activation in case of failure. Differential, magnetic and thermal protection for compressor, fan, manoeuvre and auxiliary elements. Solenoid permission. High-performance axial fan, up to 80 Pa. Radial EC fan with horizontal discharge, up to 150 Pa. Hot gas defrost. Suction separator. Copper microtube coil and aluminium fins. Copper microtube coil and aluminium fins with magnesium alloy. Danfoss AK-PC 551 electronic regulation. Supervision and control kiconex system with several configurations.		
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	Danfoss AK-PC 551 electronic regulation.	
Stainless steel screws.	Supervision and control kiconex system with several configurations.	
	Stainless steel screws.	

As standard 🔲 Optional

Step-by-step operation

Preconfigured electronic controller for managing compressors in response to cooling demand using a neutral band.



Operating limits

	Min. value	Max. value
Outdoor temp.	-5 °C	45 °C
Evaporation temp. (PT)	-15 °C	0°C
Evaporation temp. (NT)	-35 °C	-20 °C

INTARCON units are specifically designed and dimensioned for each R-455A or R-454C refrigerant.

They are delivered factory tested and adjusted with CE conformity certificate as a whole (pressure equipment, Ecodesign, etc.).

Operational reliability

The duplication of components and back-up systems is an important design criterion. intarCUBE condensing units are equipped with two or more fans, tandem or trio compressors, and emergency operation.

Accessories for DV units

- Spare electronic regulation.
- Non-return damper.
- Silentblock kit.

400V 3N ~ 50Hz | Positive temperature | Scroll compressor | R-455A

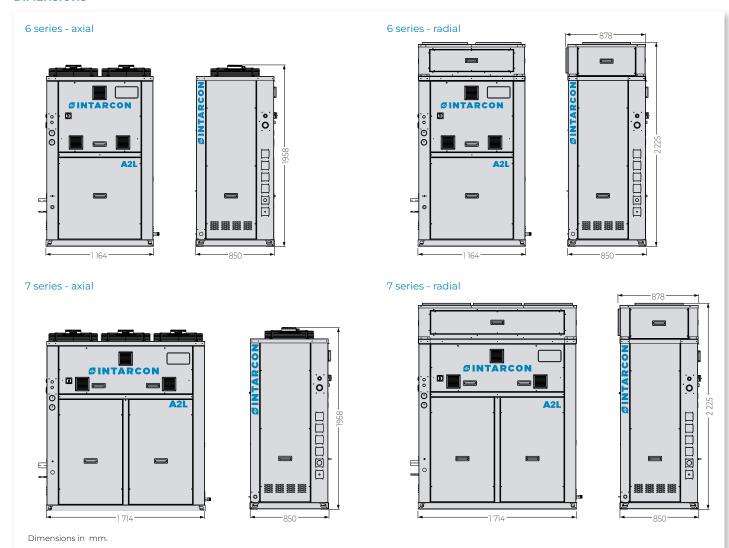
Refrigerant		Compressor	Av	Cooling cap erage evaporat		ure	Input	ower SEPR	. SEPR	SEDD	Max.	Max.	Condenser		Liq-Gas	Weight	SPL
	Series / Model	(HP)	-15 °C	-10 °C	-5 ℃	0 °C	power (kW)		current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	cooling connection	(kg)	dB(A)			
∢	MDV-SN-60082A	2x 4	9.9	12.3	15.0	18.0	6.6	4.0	22.5	2x Ø500	14 000	1/2" - 1 1/8"	485	51			
455A	MDV-SN-60142A	2x 7	16.2	19.8	24.8	28.7	10.1	4.2	32.9	2x Ø500	14 000	5/8" - 1 3/8"	500	51			
œ	MDV-SN-70213A	3x 7	24.2	29.7	36.1	43.3	15.1	4.2	49.2	3x Ø500	21 000	5/8" - 1 5/8"	615	53			

400V 3N ~ 50Hz | Negative temperature | Scroll compressor | R-455A

Refrigerant		Compressor (HP)		oling capacity (kW) e evaporating temp		Input	SEPR	Max. current (A)	Condenser		Liq-Gas	Weight	SPL
	Series / Model		-35 °C	-30 °C	-25 °C	power (kW)	(3)		Fan Ø (mm)	Conden. air flow (m³/h)	cooling connection	(kg)	dB(A)
55A	BDV-SN-60202A	2x 10	10.6	13.2	16.4	13.7	1.5	40.1	2x Ø500	14 000	1/2" - 1 5/8"	510	56
R-4	BDV-SN-70303A	3x 10	15.7	19.7	24.5	20.7	1.5	60.0	3x Ø500	21 000	5/8" - 2 1/8"	590	57

- $^{\scriptsize{(1)}}$ Conditions according to UNE-EN 13215: Ambient temp. 35 °C, average evaporating temp. -10 °C (PT) and -30 °C (NT), SH=10 K. $^{\mbox{\tiny [P]}}$ Seasonal Performance Factor (SEPR) according
- to Commission Regulation (EU) 2015/1095.
- directivity Sound pressure level, with directivity 1, measured at 10 m from the unit (nonbinding value calculated from sound power).
- (4) Available static pressure condensation for air ducts.

DIMENSIONS



A2L intarCUBE Scroll INVERTER





















Refrigeration condensing units, with scroll compressor, one of them INVERTER, with axial condensation and compact construction, for positive and negative temperature. Designed for centralised commercial refrigeration applications up to 40 kW, compatible with low-GWP refrigerants R-455A and R-454C.

FEATURES

Casing in pre-painted galvanized sheet, with acoustically insulated panels and service access covers.	•
Independent compressor compartment with ATEX extraction fans.	
Scroll compressors, one of them INVERTER, acoustically insulated with soundproof cover.	
Integrated safety valve in the boiler and in the low-pressure sector.	
Liquid injection system for negative temperature.	
Aluminium microchannel condenser coil with Polyester Powder Coating treatment.	
Axial EC fans.	
Electrical panel independent of the frigorific compartment.	6
Pressure gauges with low dew pressure and liquid bubble indication.	
Crankcase heater on all compressors.	9
Oil separator.	
Electronic oil injection system with tank.	
Electromechanical emergency manoeuvre by adjustable pressure switches with manual or automatic activation in case of failure.	•
Differential, magnetic and thermal protection for compressor, fan, manoeuvre and auxiliary elements.	
Solenoid permission.	
High-performance axial fan, up to 80 Pa.	(8)
Radial EC fan with horizontal discharge, up to 150 Pa.	
Radial EC fan with vertical discharge, up to 150 Pa.	
Hot gas defrost.	
Suction separator.	
Copper microtube coil and aluminium fins.	
Copper microtube coil and aluminium fins with polyurethane coating.	
Copper microtube coil and aluminium fins with magnesium alloy.	(8)
Danfoss AK-PC 551 electronic regulation.	0
Supervision and control kiconex system with several configurations.	
Stainless steel screws.	

As standard Optional

INVERTER technology

Inverter control of the compressor allows progressive capacity modulation, without pulses or start-up cycles, to modulate the capacity of the condensing units from 15 % to 100 %



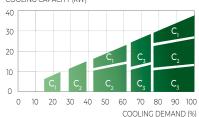






The Inverter drive of one compressor is combined with the neutral band control of the other compressors to continuously adapt the cooling capacity to the demand.

COOLING CAPACITY (kW)



Operating limits

	Min. value	Max. value
Outdoor temp.	-5 °C	45 °C
Evaporation temp. (PT)	-15 °C	0 °C
Evaporation temp. (NT)	-35 °C	-20 °C

Head pressure

Head pressure control by sequencing and varying fan speed, depending on load and ambient temperature, ensures that the condensing units operates at its optimum performance point.

Accessories for DV units

- Spare electronic regulation.
- Non-return damper.
- Silentblock kit.

COOLING DETAIL



Electromechanical emergency manoeuvre

The electromechanical emergency manoeuvre included as standard in the intarCUBE A2L range allows the system to be controlled or stopped manually in the event of an electronic failure. Its main function is to ensure the safety of the refrigerated product.

High-pressure axial fan up to 80 Pa (optional)

The optional enhanced axial fan offers a pressure of up to 80 Pa, channelling hot condensation air and facilitating its transfer to the outside or to technical areas, especially in installations in machine rooms or enclosed spaces.

Radial EC fan (optional)

The optional electronic radial fan offers a pressure of 150 Pa, with the possibility of vertical or horizontal discharge.

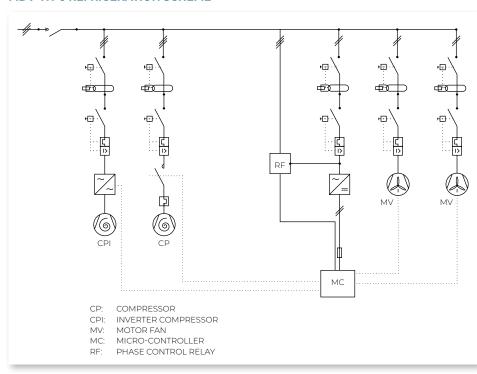
400V 3N ~ 50Hz | Positive temperature | Scroll INVERTER compressor | R-455A

erant	Series / Model	Compressor (HP)	Cooling capacity (kW) (2) Average evaporating temperature				Input	SEPR	Max.	Condenser		Liq-Gas	Weight	SPL
Refrigerant			-15 °C	-10 °C	-5 °C	0°C	power (kW)	(3)	current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	cooling connection	(kg)	dB(A)
	MDV-YN-60112A	4 ⁽ⁱ⁾ + 7	14.1	17.2	20.9	24.9	8.3	4.4	27.7	2x Ø 500	14 000	1/2" - 1 1/8"	470	51
∢	MDV-YN-60142A	7(i) + 7	17.6	21.5	26.0	31.2	10.1	4.5	32.9	2x Ø 500	14 000	5/8" - 13/8"	480	51
-455	MDV-YN-70183A	$4^{(i)} + 2x 7$	22.0	27.1	33.0	39.5	13.3	4.4	44.0	3x Ø 500	21 000	5/8" - 1 5/8"	580	53
œ	MDV-YN-70213A	$7^{(i)} + 2x7$	25.7	31.5	38.2	45.8	15.1	4.5	49.0	3x Ø 500	21 000	5/8" - 1 5/8"	600	53
	MDV-YN-70223A	7 ⁽ⁱ⁾ + 2x 7.5	31.5	38.5	46.3	54.8	19.3	4.9	43.6	3x Ø 500	21 000	5/8" - 1 5/8"	638	52

400V 3N ~ 50Hz | Negative temperature | Scroll INVERTER compressor | R-455A

Refrigerant		6	Cooling capacity (kW) Average evaporating temporating			Input	SEPR	Max.	Condenser		Liq-Gas	Weight	SPL
	Series / Model	Compressor (HP)	-35 °C	-30 °C	-25 °C	power (kW)		(3)	current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	cooling connection	nnection (kg) dB(A)
	BDV-YN-60152A	5 ⁽ⁱ⁾ + 10	8.4	10.7	13.4	10.4	1.6	30.8	2x Ø 500	14 000	1/2" - 1 1/8"	425	55
55A	BDV-YN-60202A	10 ⁽ⁱ⁾ + 10	11.5	14.4	17.8	13.6	1.6	40.1	2x Ø 500	14 000	1/2" - 1 5/8"	445	56
R-4!	BDV-YN-70253A	5 ⁽ⁱ⁾ + 2x 10	13.6	17.2	21.5	17.3	1.7	50.8	3x Ø 500	21 000	5/8" - 21/8"	590	55
	BDV-YN-70303A	10 ⁽ⁱ⁾ + 2x 10	16.6	20.9	26.0	20.6	1.7	60.0	3x Ø 500	21 000	5/8" - 2 1/8"	649	57

MDV-YN-6 REFRIGERATION SCHEME



- (i) Inverter compressor.
- $^{\scriptscriptstyle{(1)}}$ Conditions according to UNE-EN 13215: Ambient temp. 35 °C, average evaporating temp. -10 °C (PT) and -30 °C (NT), SH=10 K.
- ⁽²⁾ Seasonal Performance Factor (SEPR) according to Commission Regulation (EU) 2015/1095.
- Sound pressure level, with directivity measured at 10 m from the unit (nonbinding value calculated from sound power).
- (4) Available static pressure condensation for air ducts.

INTARCON



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