DINTARCON







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 $^{\circ}\mathrm{C}.$	•
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.	•
Regulación electrónica con interfaz de control digital.	
Acoustic and light alarm.	
Built-in hydraulic group.	Ο
Protective grille for external coil.	Ο
Polyurethane coating on the condensing coil.	0
Scroll protection system for voltage drops and phase failures.	Ο
Very low temperature condensation control.	0

🖉 As standard 🛛 Optional

COOLING DETAIL





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.

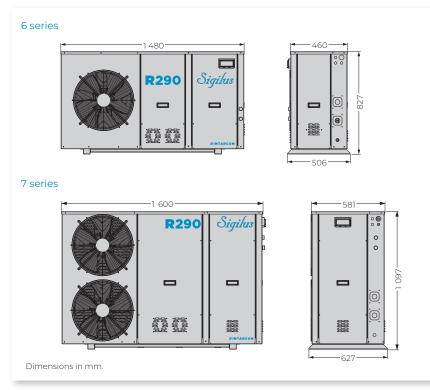
400V 3N 50Hz | High temperature | Scroll compressor | R-290

Refrigerant	Series / Model	Compressor		Cooling capacity (W) ⁽¹⁾	Input power	Ecodesign SERP	Max. current	Condenser		Refrig. charge	Water flow	Hydraulic	Weight	SPL dB(A)	Price
		ΗP	Model	Water I/O temperature 12/7 °C	(W)	(3)	(A)	Fan Ø (mm)	Air flow (m³/h)		(m³/h)	connection	(kg)	(4)	(€)
	AWF-SD-6017A	2 1/2	ZB17KCU	7 000	2 000	5.2	7.2	1x Ø 450	4 250	< 0.7	1.2	ייך	140	23	By demand
g	AWF-SD-6025A	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
	AWF-SD-7037A	6	ZB37KCU	13 700	4 200	5.9	11.8	1x Ø 450	4 500	< 0.7	2.4	11/4"	190	29	By demand
	AWF-SD-7049A	8	ZB49KCU	17 000	5 300	5.5	19.8	2x Ø 450	7 000	< 0.7	2.9	11/4"	200	33	By demand

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

Refrigerant	igerant	Series / Model	Cor	npressor	Cooling capacity (W) ⁽²⁾ 35 % propylene glycol	Input power	Ecodesign SERP	Max. current	Cond	enser	Refrig. charge	Water flow	Hydraulic	Weight	SPL dB(A)	Price
	Refr		ΗP	Model	I/O temperature -2/-8 °C	(W)	(3)	(A)	Fan Ø (mm)	Air flow (m³/h)	(kg)	(m³/h)	connection	(kg)	(4)	(€)
000.0		MWF-SD-6017A	2 1/2	ZB17KCU	4100	1800	3.5	7.2	1x Ø 450	4 250	< 0.7	0.6	۳]	140	23	By demand
	ရွ	MWF-SD-6025A	4	ZB25KCU	5 800	2 500	3.8	9.2	1x Ø 450	4 250	< 0.7	0.9	"[160	27	By demand
	Ϋ́	MWF-SD-7037A	6	ZB37KCU	8 300	3 600	4.1	11.8	1x Ø 450	4 500	< 0.7	1.3	11/4"	190	29	By demand
		MWF-SD-7049A	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



 $^{(l)}$ 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,

ambient temperature with given inleyoutlet at -2/-8 °C, with a propylene glycol concentration of 35 %.
Beasonal Energy Performance Ratio (SEPR) according to (UE) 2015/1095 and (UE) 2016/2281.
Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

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