DINTARCON







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.	Ο
Sight gauge.	Ο
Master-slave (alternative + simultaneous).	Ο
Low voltage protection (single-phase models).	Ο
Low voltage and phase sequence protection (three-phase models).	Ο
Condensing control for very low ambient temperature.	Ο
Larger sized multifunction electronic control.	Ο
Built-in oil separator.	Ο
Anti-corrosion evaporator coil coating.	Ο
Anti-corrosion condenser coil coating.	Ο

As standard Optional



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.
- Door micro-switch.
- Electrical supply hose (5 m) and interconnection hose (10 m).



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.

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

frigerant	Series / Model	Power supply	Compressor (HP)	0	Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾ Input Max. 0 °C 5 °C 10 °C power current		Evap. flow (m ³ /b)	Cond. air flow	Liq-Gas Cooling	Refrig. charge (kg)	Weight (kg)	SPL dB(A)	Price (€)					
Re				W	m ³	W	m ³	W	m ³	(**)	(~)	(111711)	(111711)	connection	(2)			
	MSF-NN-11009A	230V I+N ~ 50Hz	1/3	874	7	1042	13	1 2 2 5	22	579	5,8	475	1700	1/4"-3/8"	< 1,5	65+12	37	
	MSF-NN-11012A	230V I+N ~ 50Hz	1/2	1 101	10	1 305	17	1 505	28	732	6,8	475	1700	1/4"-3/8"	< 2,0	65+12	38	
55A	MSF-NN-12018A	230V I+N ~ 50Hz	3/4	1672	18	2 0 4 9	31	2 450	52	1 010	9,9	950	1700	1/4"-1/2"	< 2,5	76+18	38	
R-4	MSF-NN-12026A	230V I+N ~ 50Hz	1 1/2	2 151	25	2 607	42	3 095	69	1 2 5 2	13,5	950	1700	1/4"-1/2"	< 3,0	77+18	38	
	MSF-NN-12034A	230V I+N ~ 50Hz*	* 11/2	2 503	30	2 983	49	3 488	80	1506	19,2	950	1700	1/4"-1/2"	< 3,5	78+18	40	
	MSF-NN-13040A	230V I+N ~ 50Hz*	* 2	3 370	44	4 093	73	4 831	135	1828	17,1	1500	3 200	3/8"-5/8"	< 4,0	86+33	43	

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

efrigerant	Series / Model	Power supply	Compressor (HP)	-25	Cooling accordin 5°C	capacity / (ng to cold ro -20	Cold room pom temp °C	o volume, perature ⁽¹⁾ -15	°C	Input power (W)	Max. current	Evap. flow (m ³ /b)	Cond. air flow	Liq-Gas Cooling	Refrig. charge (kg)	Weight (kg)	SPL dB(A)	Price (€)
å				W	m ³	W	m ³	W	m ³	()	(* 4)	(,,	(,)	Connoctori	(2)			
	BSF-NN-11026A	230V I+N ~ 50Hz	11/4	615	2	795	5	1002	10	850	9,4	475	1700	1/4"-3/8"	< 1,0	63+12	31	
55A	BSF-NN-12034A	230V I+N ~ 50Hz	11/2	983	6	1 238	11	1 505	19	1204	11,5	950	1700	1/4"-3/8"	< 1,5	71+18	31	
R-4	BSF-NN-12054A	230V I+N ~ 50Hz	2	1307	10	1 661	18	1966	29	1480	17,7	950	1700	1/4"-1/2"	< 2,0	79+18	33	
	BSF-NN-13068A	400V 3N ~ 50Hz*	3	1962	20	2 470	34	3 020	55	2 258	11,1	1500	3 200	3/8"-5/8"	< 2,5	95+33	35	

DIMENSIONS



Dimensions (mm)	А	В	С	D	Е	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

^{II} 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). ^{I2} 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. ^{I3} 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	bes 3 x 1 mm ²						
Manoeuvre	2 x 1 mm ²						
Fans 2 x 1 mm ² + T							
Defrost	2 x 1,5 mm ² + T						
Control pad	2 x 1 mm ²						
Switch door*	2 x 1	mm²					

* Optional not included.

To know electrical interconnections of each model: see technical manual.

A2L

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.