

Sigilus A2L



Split systems for small and medium size cold rooms, composed by a low-noise condensing unit and a slim-type con refrigerante A2L, 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.	■
Self-regulating drain resistance in NT units.	■
Multifunctional electronic control with remote keyboard and digital condensation control.	■
Crankcase heater.	■
Conducted safety valve.	■
Hot gas defrost.	□
Sight gauge.	□
Cold room LED light.	□
Door micro-switch.	□
Master-slave.	□
Low voltage protection (single-phase models).	□
Low voltage and phase sequence protection (three-phase models).	□
Condensing control for very low ambient temperature.	□
Electrical supply hose (5 m) and interconnection hose (10 m).	□
Larger sized multifunction electronic control.	□
Built-in oil separator.	□
Anti-corrosion evaporator coil coating.	□
Anti-corrosion condenser coil coating.	□

■ As standard □ Optional

Electronic control

Los equipos intarsplit incorporan de serie el avanzado controlador electrónico XM670K.



- ▶ 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.

Crankcase heater (optional)

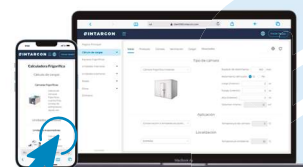
Se recomienda la inclusión de la resistencia de cárter opcional en todos los equipos instalados en el exterior.

Triple noise insulation

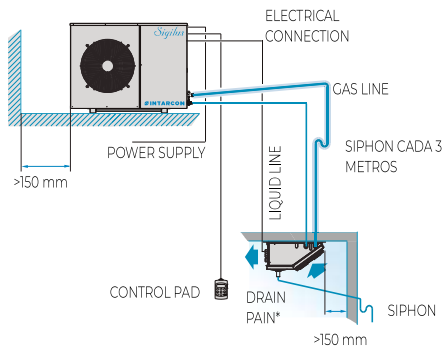
Sigilus units incorporate triple noise insulation as standard:

- ▶ 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.

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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.

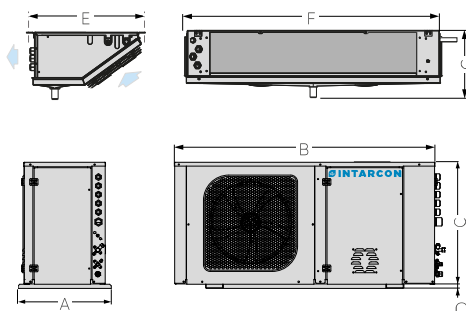
230V 50 Hz | Positive temperature | Hermetic compressor | R-455A

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾						Input power (W)	Max. current (A)	Evap. flow (m ³ /h)	Liq-Gas Cooling Connection	Refrig. charge (kg) ⁽²⁾	Weight (kg)	SPL dB(A) ⁽³⁾	Price (€)
		HP	Power supply	0 °C		5 °C		10 °C									
				W	m ³	W	m ³	W	m ³								
R-455A	MSF-NN-11009A	1/3	230V	959	8	1103	14	1266	23	671	5.8	475	1/4"-3/8"	<1.5	65+12	37	
	MSF-NN-11012A	1/2	230V	1 091	10	1284	17	1 477	28	786	6.8	475	1/4"-3/8"	<2.0	65+12	38	
	MSF-NN-12018A	3/4	230V	1 638	17	1933	29	2 253	47	1104	9.9	950	1/4"-1/2"	<2.5	76+18	38	
	MSF-NN-12026A	1 1/2	230V	2 080	24	2 466	39	2 848	63	1360	13.5	950	1/4"-1/2"	<3.0	77+18	38	
	MSF-NN-12034A	1 1/2	230V *	2 371	28	2 820	46	3 265	74	1712	19.2	950	1/4"-1/2"	<3.5	78+18	40	
	MSF-NN-13040A	2	230V *	3 393	44	4 059	72	4 665	130	1 883	17.1	1500	3/8"-5/8"	<4.0	86+33	43	

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

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾						Input power (W)	Max. current (A)	Evap. flow (m ³ /h)	Liq-Gas Cooling Connection	Refrig. charge (kg) ⁽²⁾	Weight (kg)	SPL dB(A) ⁽³⁾	Price (€)
		HP	Power supply	-25 °C		-20 °C		-15 °C									
				W	m ³	W	m ³	W	m ³								
R-455A	BSF-NN-11026A	1 1/4	230V	605	2	774	5	931	9	944	9.4	475	1/4"-3/8"	<1.0	63+12	31	
	BSF-NN-12034A	1 1/2	230V	922	6	1 169	10	1 450	18	1 261	11.5	950	1/4"-3/8"	<1.5	71+18	31	
	BSF-NN-12054A	2	230V	1152	8	1 536	16	1 875	27	1 501	17.7	950	1/4"-1/2"	<2.0	79+18	33	
	BSF-NN-13068A	3	400V 3N *	1925	20	2 446	34	3 017	55	2 302	23.1	1500	3/8"-5/8"	<2.5	95+33	35	

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G
11 series	425	1189	555	25	430	643	235
12 series	425	1189	555	25	430	993	235
13 series	425	1189	555	25	508	1 691	235

⁽¹⁾ Las prestaciones nominales están referidas al funcionamiento con temperatura de cámara de 0 °C (MT) y -20 °C (BT), y temperatura exterior de 35 °C. Volumen de cámara estimado según condiciones de las bases de cálculo (pág. 12).

⁽²⁾ Units with refrigerant charge less than 5 tons of CO₂ 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 230V / 400V 3N 50Hz power supply

Interconexiones eléctricas (modelos SF-NN)

Se han de prever las siguientes secciones de cable para 10 m de longitud entre condensadora y evaporadora:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	3 x 1 mm ²	
Manoeuvre	2 x 1 mm ²	
Ventiladores	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 mm ²	

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

A2L cooling connections calculation

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	Conexions	Connection and recommended liquid-gas pipe diameter depending on pipe length						Additional charge in grams of refrigerant / oil				
			5 m	10 m	15 m	20 m	25 m	30 m	15 m	20 m	25 m	30 m	
R-455A	PT	-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
NT	-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	