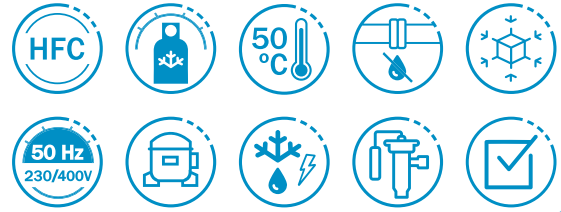


Sigilus



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

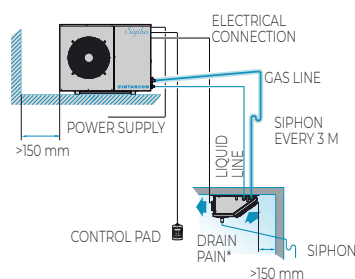
FEATURES

Compressor sound insulation only on standard three-phase units (DANFOSS compressor).	■
Large surface L-shape condensing coil (straight for series 0 and 1).	■
Low-speed condensing motor fans.	■
Proportional control of condensing pressure (optional for -N version). Proportional control (except 0 series).	□ + 304 €
High and low pressure switches.	■
Discharge muffler (for models 1 HP or more) and crankcase heater.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Built-in thermostatic expansion valves and solenoid valves.	■
Electrical heater defrost (except ASF series).	■
Drain pan.	■
Flare-type connections (up to 1/2"-3/4") and service valves.	■
MCB protection.	■
Multifunctional electronic control with remote keyboard and digital condensation control.	■
Liquid injection system for negative temperature models with R-449A.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Coil protection grille.	□ + 117 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %
Larger sized multifunction electronic control.	□ + 192 €

■ As standard □ Optional

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.



Electronic control

Sigilus split systems 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.

Triple noise insulation

Sigilus condensing units feature triple noise insulation:

- ▶ Noise insulated compressor compartment, separated from the air flow.
- ▶ Hermetic reciprocating compressor with insulation cover (three-phase models) and discharge muffler.
- ▶ Low-noise and low-speed fan on shock absorbing structure.

Proportional control of condensing pressure

Proportional control of condensing pressure, for prolonged operation at under low ambient temperature, standard for Sigilus series (optional for slim-type).

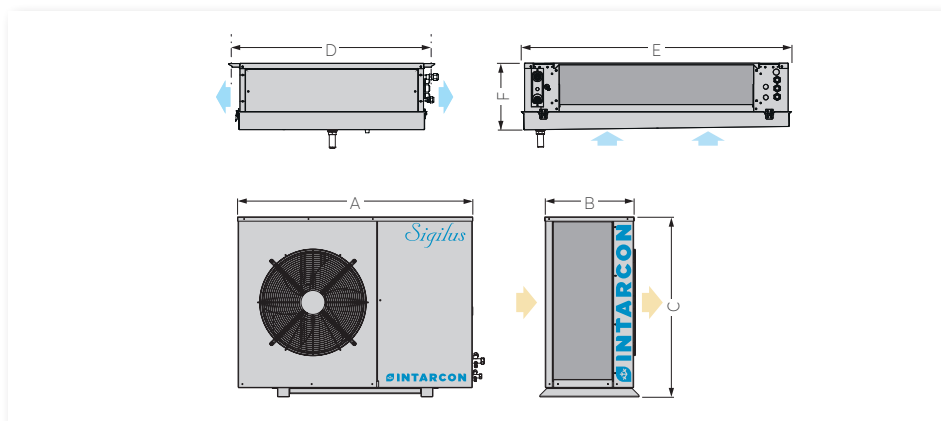
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REFRIGERATION CALCULATION SOFTWARE



230V 50Hz / 400V 3N 50Hz | High temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾						Input power (W)	Max. current (A)	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) ⁽²⁾	Weight (kg)	SPL dB(A) ⁽³⁾	Price (€)
		HP	Power supply	9 °C		12 °C		15 °C										
				W	m³	W	m³	W	m³									
R-134a	ASF-DY-11015A	1/2	230V	1 687	16	1 922	21	2 160	29	690	4.7	1 100	1 700	1/4"-1/2"	<2.5	57+32	34	4 628
	ASF-DY-11026A	3/4	230V	2 342	23	2 678	30	2 977	41	1 050	8.4	1 100	1 700	1/4"-1/2"	<2.5	65+32	34	4 958
	ASF-DY-12033A	1	230V	2 840	27	3 176	36	3 533	48	1 330	10.4	1 800	1 700	1/4"-5/8"	<3.0	67+45	34	5 581
	ASF-DY-13053A	1 1/2	230V *	4 226	42	4 730	56	5 271	72	2 040	13.6	3 150	1 700	3/8"-3/4"	<4.0	77+65	35	7 017
	ASF-DY-13074A	2	230V *	6 053	62	6 825	83	7 634	112	2 610	17.6	3 150	3 200	3/8"-3/4"	<4.5	79+65	34	8 155
	ASF-DY-23086A	4	400V 3N	7 151	75	8 033	99	8 957	131	2 900	14.4	3 150	3 700	3/8"-7/8"	<5.0	96+65	38	9 125
	ASF-DY-24108A	5	400V 3N	8 936	99	10 028	122	11 146	165	3 800	17.5	5 700	3 700	3/8"-7/8"	<5.5	98+70	35	10 119
	ASF-DY-24136A	6 1/2	400V 3N	11 093	128	12 332	168	13 645	224	5 000	21.2	5 700	3 700	1/2"-1 1/8"	<6.0	98+70	34	12 917
	ASF-DY-34171A	8	400V 3N	13 424	146	14 989	186	16 669	251	5 880	25.2	5 700	6 500	1/2"-1 1/8"	<6.0	120+70	40	15 362
	ASF-DY-44215A	10	400V 3N	15 771	171	17 593	218	19 546	294	6 610	30.2	5 700	7 000	1/2"-1 3/8"	<9.5	120+70	39	16 894
R-449A	ASF-DG-1016A	5/8	230V	2 161	19	2 387	25	2 635	35	990	7.5	1 100	1 700	1/4"-1/2"	<2.5	67+32	38	4 425
	ASF-DG-1018A	3/4	230V	2 462	23	2 709	30	2 961	42	1 180	8.8	1 100	1 700	1/4"-1/2"	<2.5	68+32	35	4 742
	ASF-DG-1024A	1	230V	3 225	29	3 539	39	3 879	51	1 530	11.3	1 800	1 700	3/8"-5/8"	<3.5	82+45	34	5 336
	ASF-DG-1026A	1 1/4	230V *	3 709	35	4 078	46	4 466	63	1 750	12.0	1 800	3 200	3/8"-5/8"	<3.5	83+45	40	5 576
	ASF-DG-1034A	1 1/2	230V *	4 607	43	5 046	58	5 494	77	2 240	16.6	1 800	3 200	3/8"-5/8"	<3.5	83+45	39	6 332
	ASF-DG-1038A	1 3/4	400V 3N	5 393	52	5 885	68	6 410	91	2 200	7.8	3 150	3 200	3/8"-5/8"	<4.0	82+65	29	7 162
	ASF-DG-2048A	2	400V 3N	6 722	67	7 343	87	7 962	115	2 760	9.3	3 150	3 700	1/2"-3/4"	<5.5	84+65	26	7 928
	ASF-DG-2054A	2 1/2	400V 3N	7 447	75	8 113	97	8 793	130	3 000	9.8	3 150	3 700	1/2"-3/4"	<5.5	85+65	26	8 240
	ASF-DG-3060A	3	400V 3N	8 824	94	9 673	115	10 551	155	3 600	11.9	3 150	6 500	1/2"-7/8"	<6.0	88+65	26	9 134
	ASF-DG-3068A	3 1/2	400V 3N	9 662	98	10 578	125	11 512	165	4 190	12.9	3 150	6 500	1/2"-7/8"	<6.0	88+65	25	10 764
ASF-DG-4086A	4	400V 3N	11 687	120	12 829	155	14 001	205	4 900	15.2	5 700	7 000	5/8"-1 1/8"	<9.0	115+70	38	12 564	
ASF-DG-4108A	5	400V 3N	14 416	150	15 702	190	17 068	255	6 400	18.2	5 700	7 000	5/8"-1 1/8"	<8.5	120+70	35	13 868	

DIMENSIONS



Dimensions (mm)		A	B	C	D	E	F	Evaporator fans
R-134a	11 series	1 030	380	577	798	736	310	1x Ø 360
	12 series	1 030	380	577	798	1 086	310	2x Ø 360
	13 series	1 030	380	577	798	1 786	310	3x Ø 360
	23 series	1 080	416	827	798	1 786	310	3x Ø 360
	24 series	1 080	416	827	888	2 186	360	3x Ø 450
	34 series	1 150	487	1 097	888	2 186	360	3x Ø 450
R-449A	44 series	1 150	487	1 346	888	2 186	360	3x Ø 450
	ASF-DG-1016A and 1018A	1 030	380	577	798	736	310	1x Ø 360
	ASF-DG-1024 and 1034A	1 030	380	577	798	1 086	310	2x Ø 360
	ASF-DG-1038A	1 030	380	577	798	1 786	310	3x Ø 360
	2 series	1 080	416	827	798	1 786	310	3x Ø 360
	3 series	1 150	487	1 097	798	1 786	310	3x Ø 360
4 series	1 150	487	1 346	888	2 186	360	3x Ø 450	

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 12 °C (HT) ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 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).

* Available units with 400V 3N 50Hz power supply.

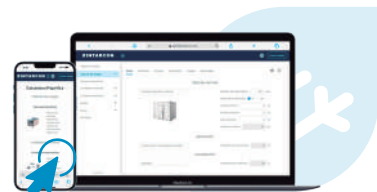
Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

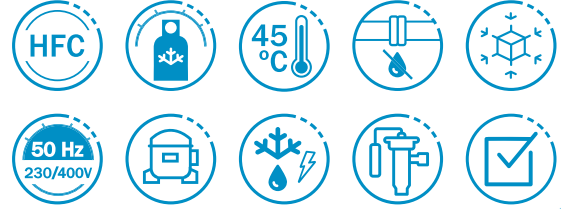
Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm ²	
Manoeuvre	3 x 1 mm ² + T	5 x 1 mm ² + T
Control pad	2 x 1 mm ²	
Condensate pump	3 x 1 mm ²	

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

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intarsplit



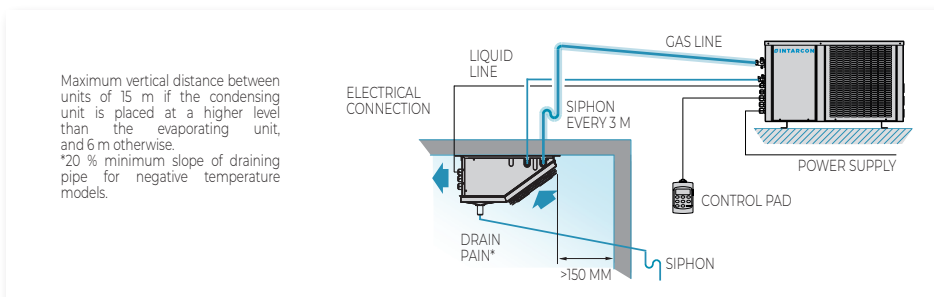
Split systems for small and medium size cold rooms at positive and negative temperature, composed by a condensing unit in horizontal construction and a slim-type, cubic-type or double-flow evaporating unit.

FEATURES

Hermetic reciprocating compressor (noise insulation in 3-phases models).	<input checked="" type="checkbox"/>
High and low pressure switches.	<input checked="" type="checkbox"/>
Liquid receiver.	<input checked="" type="checkbox"/>
Refrigerant pre-charge for 10 m piping.	<input checked="" type="checkbox"/>
Thermostatic expansion valve.	<input checked="" type="checkbox"/>
Electrical heater defrost (except ASH series).	<input checked="" type="checkbox"/>
Drain pan.	<input checked="" type="checkbox"/>
Flare-type connections (up to 3/8"-3/4") and service valves.	<input checked="" type="checkbox"/>
10 m of electrical connections included (except for 4 and 40 up to 54 series).	<input checked="" type="checkbox"/>
MCB protection.	<input checked="" type="checkbox"/>
Multifunction electronic control with remote keyboard and digital regulation of condensing pressure.	<input checked="" type="checkbox"/>
Liquid injection system for negative temperature models with R-449A.	<input checked="" type="checkbox"/>
Vertical discharge (centrifugal version).	<input type="checkbox"/> + 0 €
Larger sized multifunction electronic control.	<input type="checkbox"/> + 192 €
Change to 400V 3N 50Hz power supply.	<input type="checkbox"/> + 5 %
Crankcase heater.	<input type="checkbox"/> + 77 €
Adaptation of air discharge to circular duct.	<input type="checkbox"/> + 127 €
Built-in oil separator.	<input type="checkbox"/> + 745 €
Anti-corrosion evaporator coil coating.	<input type="checkbox"/> + 6 %
Anti-corrosion condenser coil coating.	<input type="checkbox"/> + 4 %
Proportional control of condensing pressure:	
Axial version: N, Q and D series 3/33 models onwards.	<input type="checkbox"/> + 317 €
Centrifugal version: C, CQ and CD series 4/43 models onwards.	<input type="checkbox"/> + 506 €

As standard Optional

INSTALLATION SCHEME



Electronic control

intarsplit systems 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.

Digital condensing control

Standard as intarsplit series, it protects the unit against occasional low ambient temperatures. For prolonged operations with negative temperature outside it is recommended to install the proportional condensation control (optional in series 3 and 33 onwards).

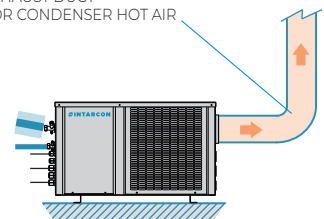
Crankcase heater (optional)

The inclusion of the optional crankcase heater is recommended in all outdoor units.

Centrifugal version

Centrifugal intarsplit units incorporates a centrifugal turbine that allows the condensation hot air to be transported outside by means of air ducts.

EXHAUST DUCT FOR CONDENSER HOT AIR



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