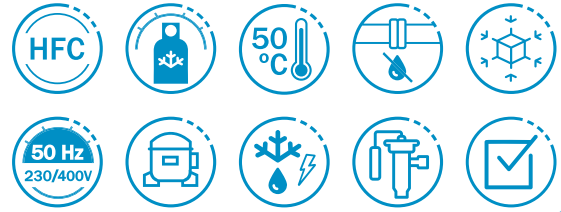


Sigilus



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.

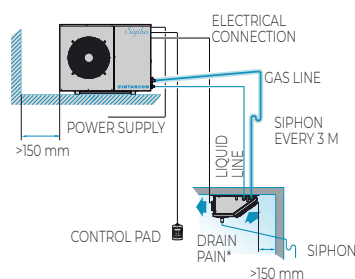
FEATURES

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



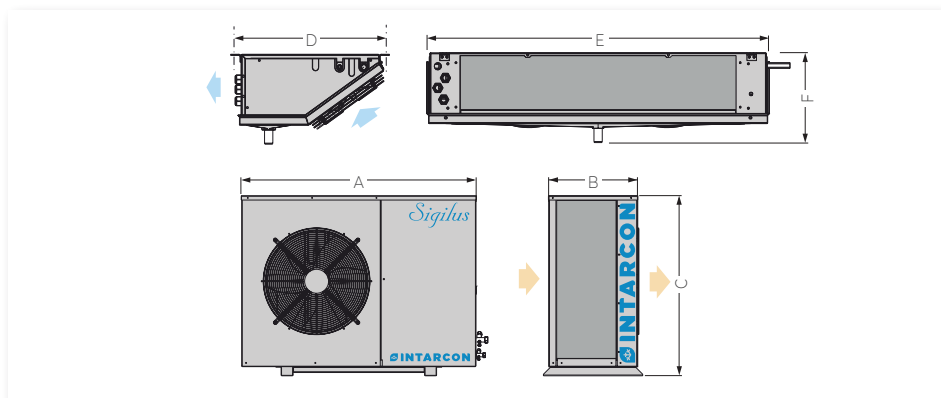
230V 50Hz / 400V 3N 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾								Input power (W)	Max. current (A)	Vent. evap.	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	-5 °C		0 °C		5 °C		10 °C											
				W	m³	W	m³	W	m³	W	m³										
R-134a	MSF-NY-00010A	3/8	230V	497	2.9	637	5.0	788	8.8	945	13	410	4.2	1x Ø 172	300	350	1/4"-3/8"	<1.5	46+12	28	2 919
	MSF-NY-00015A	1/2	230V	653	3.6	832	7.4	1 004	11	1 188	16	510	5.2	1x Ø 172	300	350	1/4"-3/8"	<1.5	49+12	29	3 218
	MSF-NY-11015A	1/2	230V	805	4.7	1 031	10	1 296	14	1 582	28	560	5.6	1x Ø 200	550	1 700	1/4"-1/2"	<2.0	57+16	34	3 368
	MSF-NY-11026A	3/4	230V	1 076	9.0	1 412	16	1 738	25	2 084	40	800	9.2	1x Ø 200	550	1 700	1/4"-1/2"	<2.0	65+16	34	4 090
	MSF-NY-12033A	1	230V	1 475	13	1 859	20	2 289	35	2 741	57	1 020	9.7	2x Ø 200	1 050	1 700	1/4"-5/8"	<2.0	67+24	34	5 110
	MSF-NY-12053A	1 1/2	230V *	1 811	22	2 347	33	2 872	50	3 439	79	1 420	12.3	2x Ø 200	1 050	1 700	1/4"-5/8"	<2.0	77+24	35	5 992
	MSF-NY-13074A	2	230V *	2 772	30	3 528	50	4 363	76	5 229	125	1 940	17.2	3x Ø 254	1 725	1 700	1/4"-3/4"	<3.5	79+45	37	6 524
	MSF-NY-23086A	4	400V 3N	3 355	39	4 384	65	5 376	108	6 437	160	2 180	14.1	3x Ø 254	1 725	3 700	3/8"-7/8"	<4.5	96+45	38	7 264
	MSF-NY-24108A	5	400V 3N	4 347	58	5 649	90	6 920	138	8 316	220	2 830	18.2	4x Ø 300	3 100	3 700	3/8"-7/8"	<5.0	98+45	35	8 539
	MSF-NY-24136A	6 1/2	400V 3N	5 486	75	6 899	110	8 363	150	9 949	280	3 550	22.2	4x Ø 300	3 100	3 700	3/8"-1 1/8"	<5.5	101+55	34	10 671
MSF-NY-34171A	8	400V 3N	6 080	88	7 613	130	9 240	200	10 978	350	4 160	25.2	4x Ø 300	3 100	4 000	3/8"-1 1/8"	<5.5	140+55	40	12 161	
R-449A	MSF-NG-0008A	1/3	230V	611	2.9	759	5.0	915	8.8	1 103	13	430	5.1	1x Ø 172	300	350	1/4"-3/8"	<1.5	47+12	29	2 749
	MSF-NG-0010A	3/8	230V	739	3.6	894	6.1	1 056	10	1 254	15	530	4.8	1x Ø 172	300	350	1/4"-3/8"	<1.5	49+12	29	3 032
	MSF-NG-0012A	1/2	230V	818	4.7	981	7.4	1 153	12	1 358	21	630	5.6	1x Ø 172	300	350	1/4"-3/8"	<1.5	50+12	29	3 174
	MSF-NG-1014A	1/2	230V	882	8.0	1 095	12	1 322	20	1 585	34	770	6.5	1x Ø 200	550	1 700	1/4"-1/2"	<2.0	59+16	34	3 538
	MSF-NG-1016A	5/8	230V	972	10	1 210	15	1 462	24	1 759	40	810	7.4	1x Ø 200	550	1 700	1/4"-1/2"	<2.0	67+16	34	3 855
	MSF-NG-1018A	3/4	230V	1 397	12	1 649	19	1 915	28	2 245	45	940	8.7	1x Ø 200	550	1 700	1/4"-1/2"	<2.0	68+16	34	4 284
	MSF-NG-2024A	1	230V	1 513	14	1 958	22	2 420	35	2 958	57	1 260	11.1	2x Ø 200	1 050	1 700	1/4"-1/2"	<2.5	82+24	34	4 816
	MSF-NG-2026A	1 1/4	230V *	1 712	16	2 147	25	2 611	39	3 157	64	1 440	11.5	2x Ø 200	1 050	1 700	1/4"-1/2"	<2.5	83+24	34	5 031
	MSF-NG-2034A	1 1/2	230V *	2 120	21	2 606	33	3 117	50	3 730	79	1 830	16.1	2x Ø 200	1 050	1 700	1/4"-5/8"	<2.5	83+24	35	5 333
	MSF-NG-3038A	1 3/4	400V 3N	2 770	29	3 394	46	4 078	71	4 894	112	1 890	8.1	3x Ø 254	1 725	3 200	1/4"-5/8"	<3.0	82+45	29	6 036
	MSF-NG-4048A	2	400V 3N	3 368	39	4 231	62	5 158	92	6 225	145	2 340	9.6	3x Ø 254	1 725	3 700	3/8"-3/4"	<4.5	84+45	26	6 559
	MSF-NG-4054A	2 1/2	400V 3N	3 792	47	4 671	70	5 640	105	6 780	160	2 540	10.1	3x Ø 254	1 725	3 700	3/8"-3/4"	<4.5	85+45	26	7 006

230V 50Hz / 400V 3N 50Hz | Negative temperature | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾						Input power (W)	Max. current (A)	Vent. evap.	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	-25 °C		-20 °C		-15 °C											
				W	m³	W	m³	W	m³										
R-449A	BSF-NG-1026A	3/4	230V	763	3.2	952	7.0	1 155	13	820	8.5	1x Ø 200	550	1 700	1/4"-1/2"	<2.0	67+16	34	4 334
	BSF-NG-2034A	1 1/4	230V	930	3.9	1 107	8.1	1 437	15	1 180	11.3	2x Ø 200	1 050	1 700	1/4"-1/2"	<2.0	83+16	34	4 599
	BSF-NG-2055A	1 3/4	230V *	1 260	9.0	1 710	16	2 190	30	1 700	17.5	2x Ø 200	1 050	1 700	1/4"-5/8"	<2.5	85+24	36	5 631
	BSF-NG-2075A	2 1/2	230V *	1 655	13	2 130	22	2 625	38	2 100	25.5	2x Ø 200	1 050	1 700	1/4"-5/8"	<3.5	90+24	37	5 934
	BSF-NG-3075A	2 1/2	230V *	1 755	14	2 450	27	3 080	48	2 300	26.3	3x Ø 254	1 725	1 700	1/4"-5/8"	<3.5	90+45	37	6 363
R-452A	BSF-NB-4096A	3 1/2	400V 3N	1 847	19	2 732	39	3 504	68	2 480	12.0	3x Ø 254	1 725	3 700	3/8"-3/4"	<4.5	97+45	39	8 247
	BSF-NB-4108A	4	400V 3N	2 513	29	3 262	50	3 990	78	2 820	14.6	3x Ø 254	1 725	3 700	3/8"-7/8"	<5.0	97+45	37	8 927
	BSF-NB-4136A	5	400V 3N	2 973	37	3 715	61	4 572	100	3 640	16.8	3x Ø 254	1 725	3 700	3/8"-7/8"	<5.0	100+45	32	9 630

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
0 and 00 series	671	308	442	417	549	185	1x Ø 172
1 and 11 series	1 030	380	577	430	643	235	1x Ø 200
2 and 12 series	1 030	380	577	430	993	235	2x Ø 200
3 and 13 series	1 030	380	577	508	1 691	235	3x Ø 254
4 and 23 series	1 080	416	827	508	1 691	235	3x Ø 254
24 series	1 080	416	827	547	2 064	285	4x Ø 300
34 series	1 150	487	1 097	547	2 064	285	4x Ø 300

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), and 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 (hoses not included):

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm ²	
Manoeuvre	2 x 1 mm ²	3 x 1 mm ²
Defrost	2 x 1,5 mm ² + T	4 x 1,5 mm ² + T
Control pad	2 x 1 mm ²	
Switch door*	2 x 1 mm ²	
Door heater cable	2 x 1 mm ² at NT	
Cold room light*	2 x 1 mm ² + T	

* Optional not included.

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

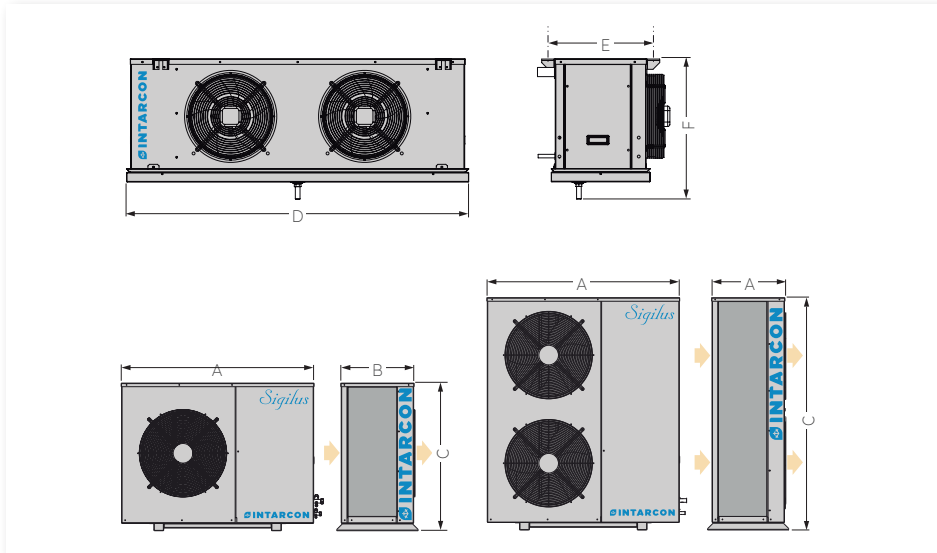
230V 50Hz / 400V 3N 50Hz | **Positive temperature** | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾								Input power (W)	Max. current (A)	Vent. evap.	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	-5 °C		0 °C		5 °C		10 °C											
				W	m³	W	m³	W	m³	W	m³										
R-134a	MSF-QY-10068A	3 1/2	400V 3N	3 281	42	4 106	60	4 998	69	5 985	110	1 980	12.8	1x Ø 350	2 100	3 200	1/4"-3/4"	< 4.0	82+43	25	7 812
	MSF-QY-20086A	4	400V 3N	3 523	45	4 442	65	5 429	75	6 515	120	2 190	14.8	1x Ø 350	2 100	3 700	3/8"-7/8"	< 4.5	96+43	38	8 456
	MSF-QY-21108A	5	400V 3N	4 226	58	5 334	81	6 521	130	7 807	210	2 560	16.3	1x Ø 350	2 700	3 700	3/8"-7/8"	< 5.0	98+56	35	9 219
	MSF-QY-22136A	6 1/2	400V 3N	5 749	80	7 277	120	8 831	186	10 553	290	3 630	21.1	2x Ø 350	4 150	3 700	3/8"-1 1/8"	< 5.0	101+72	34	11 111
	MSF-QY-33171A	8	400V 3N	6 746	100	8 484	172	10 295	197	12 306	354	4 420	24.1	2x Ø 350	5 200	4 000	3/8"-1 1/8"	< 7.0	140+89	40	12 664
	MSF-QY-33215A	10	400V 3N	8 426	130	10 563	241	12 857	268	15 419	440	5 240	30.5	3x Ø 350	6 200	6 500	3/8"-1 1/8"	< 7.5	147+94	39	13 939
R-449A	MSF-QY-34271A	13	400V 3N	11 099	165	13 776	256	16 622	346	19 777	550	7 190	40.2	4x Ø 350	8 300	6 500	1/2"-1 1/8"	< 8.5	152+118	38	17 651
	MSF-QG-10038A	1 3/4	400V 3N	3 280	31	3 919	48	4 625	75	5 472	120	1 770	7.4	1x Ø 350	2 100	3 200	1/4"-5/8"	< 3.0	82+43	29	6 988
	MSF-QG-20048A	2	400V 3N	3 964	43	4 736	63	5 572	95	6 605	150	2 210	8.8	1x Ø 350	2 100	3 700	3/8"-3/4"	< 5.0	84+43	26	7 560
	MSF-QG-20054A	2 1/2	400V 3N	4 395	48	5 197	72	6 078	110	7 158	170	2 380	9.4	1x Ø 350	2 100	3 700	3/8"-3/4"	< 5.0	85+43	26	7 887
	MSF-QG-21060A	3	400V 3N	5 081	61	6 032	89	7 055	130	8 328	200	2 840	10.4	1x Ø 350	2 700	3 700	3/8"-3/4"	< 5.0	88+56	26	8 600
	MSF-QG-21068A	3 1/2	400V 3N	5 519	78	6 528	110	7 601	160	8 942	250	3 210	11.4	1x Ø 350	2 700	3 700	3/8"-3/4"	< 5.0	88+56	25	9 936
	MSF-QG-32086A	4	400V 3N	6 787	91	8 180	130	9 707	190	11 545	300	4 130	13.6	2x Ø 350	4 150	4 000	1/2"-7/8"	< 7.0	115+72	38	11 324
	MSF-QG-32108A	5	400V 3N	8 623	125	10 181	175	11 880	255	13 969	400	5 050	16.7	2x Ø 350	4 150	6 500	1/2"-7/8"	< 7.0	120+72	35	12 465
	MSF-QG-43136A	6 1/2	400V 3N	11 105	160	13 146	220	15 399	320	18 145	500	6 630	21.5	3x Ø 350	6 200	7 000	1/2"-1 1/8"	< 10.0	135+89	34	14 825
	MSF-QG-44160A	8	400V 3N	11 597	170	14 009	230	16 660	340	19 806	530	7 590	26.0	4x Ø 350	8 300	7 000	5/8"-1 1/8"	< 10.0	157+118	40	17 400

230V 50Hz / 400V 3N 50Hz | **Negative temperature** | Hermetic compressor | R-449A / R-452A

Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature ⁽¹⁾						Input power (W)	Max. current (A)	Vent. evap.	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	-25 °C		-20 °C		-15 °C											
				W	m³	W	m³	W	m³										
R-452A	BSF-QG-10075A	2 1/2	230V *	1 760	14	2 465	27	3 110	48	2 300	25.1	1x Ø 350	2 100	1 700	1/4"-5/8"	< 3.0	90+43	37	6 849
	BSF-QB-20096A	3 1/2	400V 3N	2 409	20	3 125	43	3 864	74	2 410	11.5	1x Ø 350	2 100	3 700	3/8"-3/4"	< 4.0	97+43	39	9 323
	BSF-QB-21108A	4	400V 3N	2 739	28	3 751	50	4 831	86	2 790	13.5	1x Ø 350	2 700	3 700	3/8"-7/8"	< 5.0	97+56	37	10 036
	BSF-QB-22136A	5	400V 3N	3 866	53	5 001	83	6 060	130	4 110	16.4	2x Ø 350	4 150	3 700	1/2"-1 1/8"	< 5.0	97+72	32	11 937
	BSF-QB-33215A	7 1/2	400V 3N	5 230	80	7 169	130	9 368	200	5 630	25.8	3x Ø 350	6 200	6 500	1/2"-1 1/8"	< 7.5	147+94	39	15 087
	BSF-QB-34271A	10	400V 3N	7 407	120	9 595	185	11 634	230	7 300	28.2	4x Ø 350	8 300	6 500	1/2"-1 3/8"	< 8.5	147+118	39	16 897

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F
10 series	1 030	380	577	880	455	581
20 series	1 080	416	827	880	455	581
21 series	1 080	416	827	1 230	455	581
22 series	1 080	416	827	1 530	455	581
32 series	1 150	487	1 097	1 530	455	581
33 series	1 150	487	1 097	1 930	455	581
34 series	1 150	487	1 097	2 430	455	581
43 series	1 150	487	1 346	1 930	455	581
44 series	1 150	487	1 346	2 430	455	581

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), and 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 (35 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

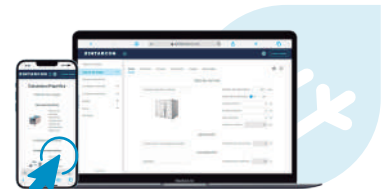
For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm ²	
Manoeuvre	2 x 1 mm ²	3 x 1 mm ²
Defrost	2 x 1,5 mm ² + T	4 x 1,5 mm ² + T
Control pad	2 x 1 mm ²	
Switch door*	2 x 1 mm ²	
Door heater cable	2 x 1 mm ² at NT	
Cold room light*	2 x 1 mm ² + T	

* Optional not included.

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

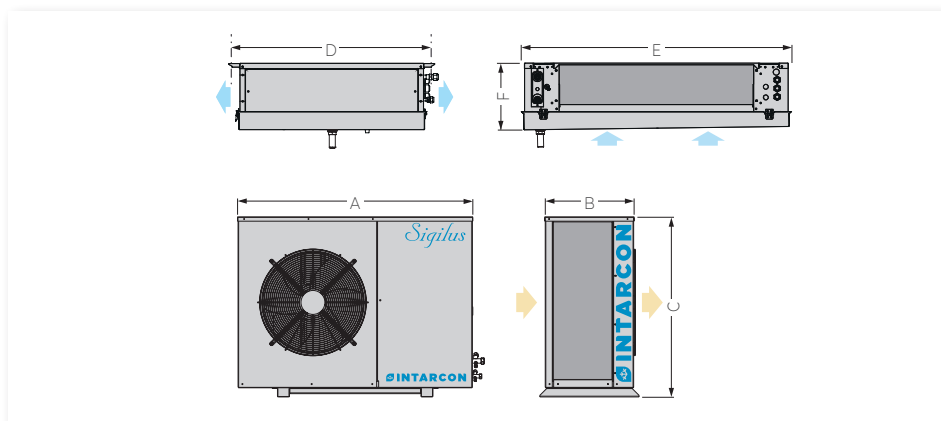
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230V 50Hz / 400V 3N 50Hz | High temperature | Hermetic compressor | R-134a / R-449A

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.

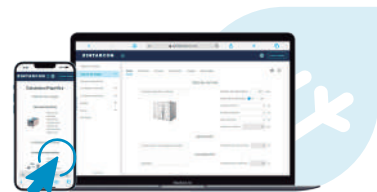
Electrical interconnections

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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REFRIGERATION CALCULATION SOFTWARE



HFC cooling connections

INTARCON commercial range split units are delivered pre-adjusted in factory, with a R-134a or R-449A 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	Connections	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-134a	HIGH TEMPERATURE	- 015	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"							
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"		125 / 100				
		- 033	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	125 / 150	250 / 300	375 / 450	500 / 450	
		- 053	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600	
		- 074	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600	
		- 086	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 250	600 / 500	900 / 750	1200 / 750	
		- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 250	600 / 500	900 / 750	1200 / 750	
		- 136	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	600 / 250	1200 / 500	1800 / 750	2400 / 750	
		- 160	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 3/8"	600 / 250	1200 / 600	1800 / 900	2400 / 900	
		- 215	Weld 1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	600 / 300	1200 / 600	1800 / 900	2400 / 900	
	- 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"								
	- 0 015	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"								
	- 1 015	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"		125 / 100					
	- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"		125 / 100					
	- 033	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	125 / 100	250 / 300				
	- 053	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	125 / 150	250 / 300				
	- 074	Flare 1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	3/8"-7/8"	125 / 150	1200 / 400	1500 / 600	1800 / 600		
	- 068	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600		
	- 086	Flare 1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	3/8"-7/8"	125 / 150	800 / 400	1100 / 600	1400 / 600		
	- 108	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600		
- 136 / - 171	Weld 3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	300 / 250	600 / 500	900 / 750	1200 / 750			
- 215	Weld 3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	600 / 250	1200 / 600	1800 / 900	2400 / 900			
- 271	Weld 1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	600 / 300	1200 / 600	1800 / 900	2400 / 900			
R-449A	HIGH TEMPERATURE	- 008 / - 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"		100 / 25					
		- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"						
		- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1200 / 150	
		- 016	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1200 / 150	
		- 018	Flare 1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1200 / 150	
		- 024 / - 026	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1200 / 300	
		- 034	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	300 / 100	600 / 450	900 / 600	1200 / 600	
		- 038	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"	300 / 150	600 / 450	900 / 600	1200 / 600	
		- 048	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	600 / 150	1100 / 300	1700 / 800	2300 / 800	
		- 054	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	600 / 150	1100 / 600	1700 / 800	2300 / 800	
	- 060 / - 068	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	900 / 400	1800 / 800	2700 / 1200	3600 / 1200		
	- 086 / - 108	Weld 5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	5/8"-1 1/8"	900 / 400	1800 / 800	2700 / 1200	3600 / 1200		
	- 008 / - 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"			100 / 50					
	- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"		100 / 50					
	- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"		100 / 50	200 / 100				
	- 016	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"	100 / 50	200 / 100				
	- 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"	100 / 50	900 / 100				
	- 024	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1200 / 300		
	- 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"	100 / 25	200 / 50	300 / 100	1000 / 250		
	- 034	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1200 / 300		
- 038	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	3/8"-3/4"	100 / 25	500 / 125	800 / 200	1000 / 250			
- 048	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	300 / 100	600 / 450	900 / 600	1200 / 600			
- 054	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	500 / 125	100 / 250	1500 / 350	2000 / 500			
- 060	Flare 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	300 / 75	500 / 125	800 / 200	1000 / 250			
- 068	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	600 / 150	600 / 300	900 / 450	1200 / 450			
- 086	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	500 / 125	1000 / 250	1500 / 350	2000 / 500			
- 108	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	500 / 125	1000 / 250	1500 / 350	2000 / 500			
- 136	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	600 / 400	1100 / 800	1700 / 1200	2300 / 1200			
NEGATIVE TEMPERATURE	- 018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"								
	- 026	Flare 3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	3/8"-1 1/8"	250 / 200	500 / 400	750 / 500	1000 / 750		
	- 034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"		100 / 100					
	- 055	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200				
	- 075	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	100 / 75	200 / 150	250 / 200	300 / 250		
	- 096	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"	300 / 300	600 / 450	900 / 800	1200 / 800		
	- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	160 / 100	320 / 200	480 / 300	640 / 400		
	- 136	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	3/8"-1 1/8"	190 / 120	370 / 230	560 / 350	740 / 460		
	- 215	Weld 1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	1/2"-1 1/8"	240 / 150	470 / 290	760 / 300	1010 / 630		
	- 271	Weld 1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	1/2"-1 3/8"	250 / 160	500 / 310	760 / 480	1080 / 680		