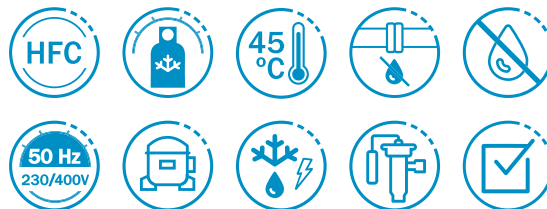


High humidity



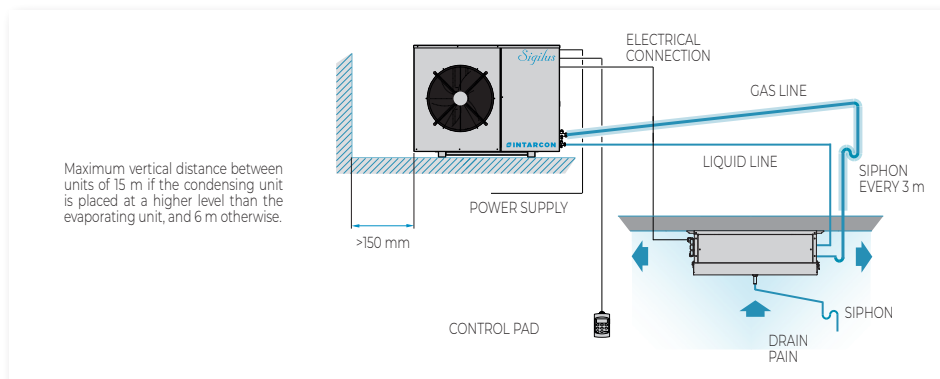
Split refrigeration systems for high relative humidity applications in a positive temperature range, featuring an evaporating unit with double air flow, and a low-noise or centrifugal condensing unit.

FEATURES

Oversized double air flow evaporating unit designed for relative humidity control between 60 % and 95 %*.	■
High and low pressure switches.	■
Evaporator built-in solenoid and thermostatic expansion valves.	■
Air defrost.	■
Drain pan.	■
Flare-type connections (up to 1/2"-3/4") with service valves.	■
MCB protection.	■
Liquid receiver.	■
Refrigerant pre-charge for 10 m piping.	■
Multifunction electronic control with temperature and humidity control and remote control.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Proportional control of condensing pressure through fan speed variation (already included in 2/22 series and above).	□ + 317 €
Coil protection grille.	□ + 117 €
Built-in oil separator.	□ + 745 €
Anti-corrosion evaporator coil coating.	□ + 6 %
Anti-corrosion condenser coil coating.	□ + 4 %
Built-in active humidification kit.	By request
Dehumidification and heating kit.	By request

■ As standard □ Optional

INSTALLATION SCHEME



Conservation at controlled relative humidity

The preservation of certain products, such as fruits, vegetables or cut flowers, requires control of the relative humidity in the cold room within a certain range. These unit adjusted for high relative humidity are especially suitable for fruit and vegetable products preservation cold room.

The evaporators have a double air discharge through oversized coils to obtain up to a high level of relative humidity inside the chamber at around 95 %, avoiding loss of humidity and weight of the product.



Electronic temperature and humidity control

The unit incorporates an advanced electronic regulation for the control of the temperature and humidity inside the cold room.

- ▶ Multifunction remote digital control with temperature and relative humidity display.
- ▶ Relative humidity control in the regulation range from 60 % to 95 %*.
- ▶ Optionally, active humidification kits with steam lances and dehumidification and stove kits are integrated.

* The humidity regulation in the cold room is carried out passively, acting on the evaporator flow, without water vapour. The actual range of humidity regulation depends largely on the conditions of the cold room, absolute outside humidity and type of product.

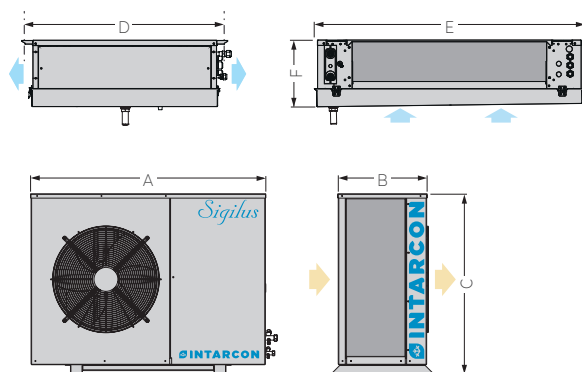
CLIENT360
client360.intarcon.com
REFRIGERATION CALCULATION SOFTWARE



230V 50Hz / 400V 3N 50Hz | Positive temperature - Humidity control | 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	5 °C		10 °C										
				W	m³	W	m³									
R-134a	HSF-DY-12015A	1/2	230V	1 544	22	1 906	38	740	6.5	1 800	1 700	1/4"-1/2"	< 2.0	57+32	34	4 797
	HSF-DY-12026A	3/4	230V	2 116	32	2 594	53	1 060	10.2	1 800	1 700	1/4"-1/2"	< 2.0	65+32	34	5 182
	HSF-DY-13033A	1	230V	2 620	43	3 192	73	1 300	11.0	3 150	1 700	1/4"-1/2"	< 2.5	67+45	34	6 374
	HSF-DY-13053A	11/2	230V *	3 486	64	4 237	103	1 900	13.6	3 150	1 700	1/4"-5/8"	< 3.0	77+65	35	7 588
	HSF-DY-14074A	2	230V *	4 977	91	6 090	148	2 570	17.7	5 700	1 700	1/4"-3/4"	< 5.0	79+65	37	8 916
	HSF-DY-24086A	4	400V 3N	6 773	134	8 311	217	2 870	14.5	5 700	3 700	3/8"-7/8"	< 6.0	96+65	38	10 057
	HSF-DY-24108A	5	400V 3N	7 865	158	9 713	263	3 400	17.5	5 700	3 700	3/8"-7/8"	< 6.0	98+65	35	11 019
HSF-DY-24136A	6 1/2	400V 3N	9 870	202	11 960	331	4 440	21.5	5 700	3 700	3/8"-1 1/8"	< 6.5	101+70	34	14 479	
R-449A	HSF-DG-1014A	1/2	230V	1 801	25	2 112	41	850	6.6	1 100	1 700	1/4"-1/2"	< 2.0	59+32	34	4 625
	HSF-DG-1016A	5/8	230V	2 015	29	2 378	47	930	7.5	1 100	1 700	1/4"-1/2"	< 2.0	67+32	34	4 995
	HSF-DG-1018A	3/4	230V	2 582	38	3 036	62	1 220	9.1	1 800	1 700	1/4"-1/2"	< 2.0	68+45	34	5 945
	HSF-DG-1024A	1	230V	2 945	46	3 478	75	1 400	11.3	1 800	1 700	3/8"-5/8"	< 3.5	82+45	34	6 348
	HSF-DG-1026A	1 1/4	230V *	3 289	54	3 849	86	1 530	16.3	1 800	1 700	3/8"-5/8"	< 3.5	83+45	34	6 653
	HSF-DG-1034A	1 1/2	230V *	3 734	64	4 361	100	2 090	16.6	1 800	1 700	3/8"-5/8"	< 3.5	83+45	35	7 170
	HSF-DG-1038A	1 3/4	400V 3N	4 905	85	5 760	135	2 020	7.8	3 150	3 200	3/8"-5/8"	< 4.0	82+65	29	8 319
	HSF-DG-2048A	2	400V 3N	6 170	115	7 244	175	2 530	7.9	3 150	3 700	3/8"-3/4"	< 5.0	84+65	26	8 846
	HSF-DG-2054A	2 1/2	400V 3N	6 852	130	7 997	200	2 770	9.8	3 150	3 700	3/8"-3/4"	< 5.0	85+65	26	9 161
	HSF-DG-2060A	3	400V 3N	7 844	150	9 122	230	3 280	11.3	3 800	3 700	3/8"-3/4"	< 5.0	88+65	26	10 036
	HSF-DG-2068A	3 1/2	400V 3N	8 576	165	9 934	260	3 770	12.3	3 800	3 700	1/2"-3/4"	< 5.0	88+65	25	11 210
	HSF-DG-3086A	4	400V 3N	10 308	200	12 124	320	4 740	14.5	5 700	4 000	1/2"-7/8"	< 9.0	115+70	38	13 187

DIMENSIONS



Dimensions (mm)		A	B	C	D	E	F	Evaporator fans
R-134a	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
	14 series	1 030	380	577	888	2 186	310	3x Ø 450
	24 series	1 080	416	827	888	2 186	360	3x Ø 450
R-449A	HSF-DG-1014A and 1016A	1 030	380	577	798	736	310	1x Ø 360
	HSF-DG-1018A - 1034A	1 030	380	577	798	1 086	310	2x Ø 360
	HSF-DG-1038A	1 030	380	577	798	1 786	310	3x Ø 360
	HSF-DG-2048A - 2068A	1 080	416	827	798	1 786	310	3x Ø 360
	HSF-DG-3086A	1 150	487	1 097	888	2 186	360	3x Ø 450

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 5 °C, with a relative humidity cold room of 95 %, 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.

Centrifugal version

Refrigerant	Series / Model	HP	Cooling capacity 0 °C		Price (€)
			W	m³	
R-134a	HSH-CDY-12015A	1/2	1 415	21	4 575
	HSH-CDY-12026A	3/4	1 859	28	5 255
	HSH-CDY-12033A	1	2 242	32	5 772
	HSH-CDY-23033A	1	2 746	45	6 149
	HSH-CDY-23053A	1 1/2	3 507	64	6 771
	HSH-CDY-23074A	2	4 526	82	8 418
	HSH-CDY-34074A	2	5 140	93	8 851
R-449A	HSH-CDY-44086A	4	6 741	134	10 047
	HSH-CDY-44108A	5	7 817	158	10 935
	HSH-CDY-44136A	6 1/2	9 791	200	13 558
	HSH-CDG-1014A	1/2	1 399	20	4 412
	HSH-CDG-1016A	5/8	1 608	22	4 571
	HSH-CDG-2018A	3/4	2 510	38	5 568
	HSH-CDG-2024A	1	2 902	46	5 931
	HSH-CDG-2026A	1 1/4	3 242	54	6 168
	HSH-CDG-3034A	1 1/2	4 056	71	6 736
	HSH-CDG-3038A	1 3/4	4 360	77	7 857
	HSH-CDG-3048A	2	6 160	116	8 666
	HSH-CDG-4054A	2 1/4	6 833	132	9 151
	HSH-CDG-4060A	3	7 652	149	9 960
	HSH-CDG-4068A	3 1/2	8 371	164	10 691

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	Connection and recommended liquid-gas pipe diameter depending on pipe length							Additional charge in grams of refrigerant / oil			
	Connections	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"		125 / 100			
		- 033	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	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"-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"	300 / 200	600 / 400	900 / 600	1200 / 600
		- 086	Weld 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"	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"	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 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"	600 / 300	1200 / 600	1800 / 900	2400 / 900
	POSITIVE TEMPERATURE	- 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"					
		- 01015	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"					
		- 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"-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"-3/4"	125 / 150	250 / 300		
		- 074	Flare 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"-7/8"	300 / 150	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"-7/8"	300 / 200	600 / 400	900 / 750	1200 / 750
		- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1 1/8"	300 / 200	600 / 500	900 / 750	1200 / 750
		- 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"	300 / 250	600 / 500	900 / 750	1200 / 750
R-449A	HIGH TEMPERATURE	- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"		100 / 25			
		- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-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"	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"	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"	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"-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"	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"-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"-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"	900 / 400	1800 / 800	2700 / 1200	3600 / 1200
	POSITIVE TEMPERATURE	- 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"	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"	100 / 50	200 / 100		
		- 018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-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"	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"	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"	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"	3/8"-3/4"	100 / 25	500 / 125	800 / 200	1000 / 250
R-452A	POSITIVE TEMPERATURE	- 048	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	500 / 125	1000 / 250	1500 / 350	2000 / 500
		- 054	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 75	500 / 125	800 / 200	1000 / 250
		- 060	Flare 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
		- 068	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	300 / 75	500 / 125	800 / 250	1000 / 250
		- 086	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	250 / 60	500 / 125	700 / 200	800 / 200
		- 108	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	600 / 300	1100 / 600	1700 / 800	2300 / 800
		- 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"	600 / 400	1100 / 800	1700 / 1200	2300 / 1200
		- 018	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"-1/2"	1/4"-1/2"	1/4"-1/2"	100 / 100			
		- 034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200		
	NEGATIVE TEMPERATURE	- 055	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	300 / 300	600 / 450	900 / 600	1200 / 600
		- 075	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	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"	300 / 300	600 / 450	900 / 800	1200 / 800
		- 108	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	100 / 75	200 / 130	250 / 200	350 / 250
		- 136	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-11/8"	160 / 100	320 / 200	480 / 300	640 / 400
		- 215	Weld 1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	190 / 120	370 / 230	560 / 350	740 / 460
		- 271	Weld 1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	240 / 150	470 / 290	760 / 300	1010 / 630
		- 018	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"	250 / 200	500 / 400	750 / 500	1000 / 750
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"					
		- 034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200		