

intarsplit A2L



Split systems for small and medium size cold rooms, composed of a condensing unit in horizontal construction and a slim-type evaporator with refrigerant 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.	■
Conducted security valve.	■
Crankcase heater.	■
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).	□
Cold water condensation (glycol inlet temperature: -10 up to +5 °C).	□
Water condensation (water inlet temperature: +5 up to +50 °C).	□
Water solenoid valve (supplied separately from the unit).	□
Water solenoid valve (integrated in the unit).	□
Larger sized multifunction electronic control.	□
Built-in oil separator.	□
Anti-corrosion evaporator coil coating.	□
Anti-corrosion condenser coil coating.	□

■ As standard □ Optional

Electronic control

intarsplit units feature XM670K electronic control as standard:

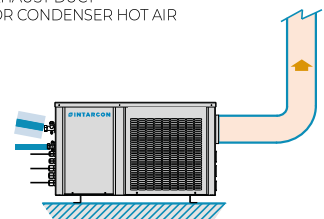


- ▶ Multi-function remote digital control.
- ▶ Internal clock for programming of energy saving cycles and defrost.
- ▶ Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

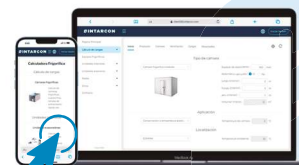
Centrifugal version (optional)

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

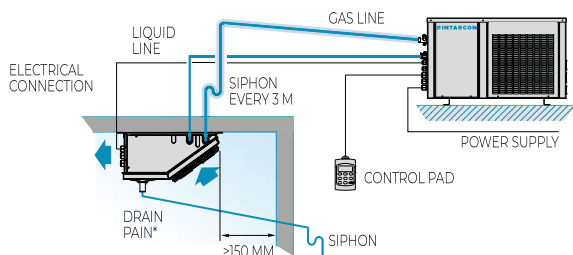
EXHAUST DUCT FOR CONDENSER HOT AIR



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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.

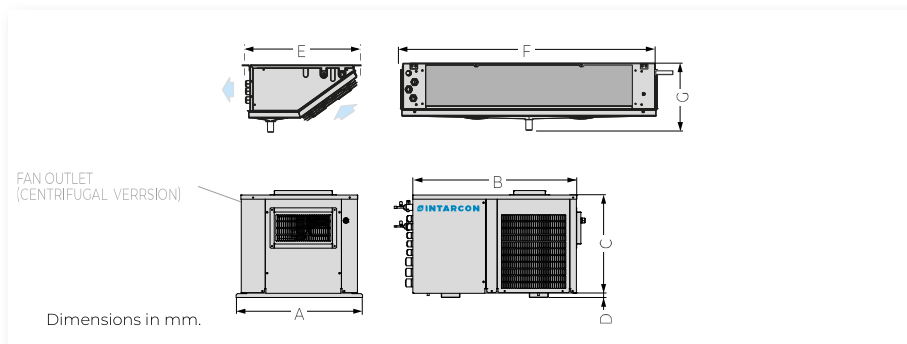
230V 50 Hz | Positive temperature | Hermetic compressor | R-455A

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)	Weight (kg)	SPL dB(A) ⁽²⁾	Price (€)
		HP	Power supply	0 °C		5 °C		10 °C									
				W	m ³	W	m ³	W	m ³								
R-455A	MSH-NN-11009A	1/3	230V	870	7	1007	12	1149	20	650	5.4	575	1/4"-3/8"	<1.5	51+12	34	
	MSH-NN-11012A	1/2	230V	1030	9	1165	15	1308	24	760	6.4	575	1/4"-3/8"	<2.0	52+12	35	
	MSH-NN-22018A	3/4	230V	1593	17	1913	28	2224	46	1140	9.7	1400	1/4"-1/2"	<2.5	71+12	40	
	MSH-NN-22026A	1 1/2	230V	1970	22	2417	38	2755	60	1410	13.3	1400	1/4"-1/2"	<3.0	72+18	40	
	MSH-NN-33034A	1 1/2	230V*	2764	34	3332	57	3937	93	1590	19.2	1700	3/8"-5/8"	<3.5	83+18	42	
	MSH-NN-33040A	2	230V*	3178	41	3823	67	4538	125	1640	16.4	1700	3/8"-5/8"	<4.0	91+33	45	

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 (kW)	Max. current (A)	Evap. flow (m ³ /h)	Liq-Gas Cooling Connection	Refrig. charge (kg)	Weight (kg)	SPL dB(A) ⁽²⁾	Price (€)
		HP	Power supply	-25 °C		-20 °C		-15 °C									
				W	m ³	W	m ³	W	m ³								
R-455A	BSH-NN-11026A	1 1/4	230V	552	2	699	4	853	7	910	9.0	575	1/4"-3/8"	<1.0	63+12	31	
	BSH-NN-22034A	1 1/2	230V	848	5	1052	9	1354	16	1290	11.3	1400	1/4"-1/2"	<1.5	71+18	31	
	BSH-NN-22054A	2	230V	1099	8	1403	14	1780	25	1570	17.5	1400	1/4"-1/2"	<2.0	79+18	33	
	BSH-NN-33068A	3	400V 3N*	1814	18	2289	30	2791	49	2050	22.4	1700	3/8"-5/8"	<2.5	95+33	35	

DIMENSIONS



Dimensions (mm)	A	B	C	D	E	F	G
11 series	598	776	485	25	430	643	235
22 series	598	902	485	25	430	993	235
33 series	698	1032	535	25	508	1691	235

⁽¹⁾ 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).

⁽²⁾ 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. Available static pressure of condensation: 100 Pa.

Electrical interconnections (SH-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	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
	NT	-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
		-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		