DINTARCON

intarsplit A2L





Split systems for small and medium size cold rooms, composed by a condensing unit in horizontal construction and a slim-type evaporating unit with A2L refrigerant, 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.	
Drain resistance in NT units.	
Multifunctional electronic control with remote keyboard and digital condensation control.	•
Conducted security valve.	
Crankcase heater.	
Centrifugal fan.	
Hot gas defrost.	0 + 5 %
Sight gauge.	🛛 + 117 €
Master-slave (alternative + simultaneous).	🛛 + 82 €
Low voltage protection (single-phase models).	🛛 + 189 €
Low voltage and phase sequence protection (three-phase models).	🛛 + 251 €
Condensing control for very low ambient temperature.	🛛 + 734 €
Cold water condensation (glicol inlet temperature: -10 up to 5 °C).	0 + 5 %
Water condensation (water inlet temperature: 5 up to 50 °C).	0 +9%
Water solenoid valve (supplied separately from the unit).	🛛 + 183 €
Water solenoid valve (integrated in the unit).	🛛 + 183 €
Larger sized multifunction electronic control.	🛛 + 192 €
Built-in oil separator.	🛛 +745€
Anti-corrosion evaporator coil coating.	0 + 6 %
Anti-corrosion condenser coil coating.	- + 4 %

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.

Accessories SH-NN units

- Cold room LED light (+ 40 €).
- Door micro-switch (+ 65 €).
- Electrical supply hose (5 m) and interconnection hose (10 m) (+ 3 %).





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

Centrifugal version (optional)

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



Refrigerant	Series / Model	Compressor		Cooling capacity / Cold room volume, according to cold room temperature (1)					Input	Max.	Evap. flow	Cond.	Liq-Gas	Refrig. charge	Weiaht	SPL	Price	
		HP	Power supply	w	m ³	W S	m ³	W	m ³	(W)	current (A)	(m³/h)	air flow (m³/h)	Cooling Connection	(kg) (2)	(kg)	(3) (3)	(€)
	MSH-NN-11009A	1/3	230V	810	6	949	11	1 099	19	537	5.4	475	575	1/4"-3/8"	< 1,5	51+12	34	2 962
	MSH-NN-11012A	1/2	230V	992	9	1 160	15	1 332	24	705	6.4	475	575	1/4"-3/8"	< 2,0	52+12	35	3 211
55A	MSH-NN-22018A	3/4	230V	1 562	16	1909	28	2 268	47	1045	9.7	950	1400	1/4"-1/2"	< 2,5	71+12	40	4 177
R-4	MSH-NN-22026A	11/2	230V	1 971	22	2 368	37	2 778	61	1304	13.3	950	1400	1/4"-1/2"	< 3,0	72+18	40	4 676
	MSH-NN-33034A	11/2	230V *	2 685	33	3 212	54	3 771	88	1 701	19.2	1500	1700	3/8"-5/8"	< 3,5	83+18	42	5 650
	MSH-NN-33040A	2	230V *	3 080	39	3 702	65	4 329	110	1 753	16.4	1500	1700	3/8"-5/8"	< 4,0	91+33	45	6 309

230V 50Hz / 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	Max.	Evap.	Cond.	Liq-Gas	Refrig.	Weight	SPL	Price	
		ΗP	P Power supply	-25 °C		-20 °C		-15 °C		power	current	(m ³ /h)	air flow	Cooling	(kg)	(kg)	dB(A)	(€)
				W	m³	W	m³	W	m ³	(RVV)	(~)		(111711)	Connection	(2)			
	BSH-NN-11026A	11/4	230V	574	2	714	4	874	8	804	9.0	475	575	1/4"-3/8"	< 1.0	63+12	31	3 611
55A	BSH-NN-22034A	1 1/2	230V	973	6	1 186	11	1407	17	1 219	11.3	950	1400	1/4"-1/2"	< 1.5	71+18	31	4 549
R-4	BSH-NN-22054A	2	230V	1 221	9	1 510	16	1788	25	1 510	17.5	950	1400	1/4"-1/2"	< 2.0	79+18	33	5 185
	BSH-NN-33068A	3	400V 3N *	1 788	17	2 249	30	2 735	48	2 183	10.3	1500	1700	3/8"-5/8"	< 2.5	95+33	35	6 626

DIMENSIONS



Dimensions (mm)	А	В	С	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	1 691	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⁾ According to EN-378, split systems with a refrigerant charge of less than 3 kg is exempted from obligatory periodic leakage checks, due to their lower environmental and safety impact. However, it is essential to ensure that the safety conditions of the equipment and its location are adequate.

⁽³⁾ 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							
Fans	2xlm	im² + T						
Defrost	2 x 1,5 mm² + T							
Control pad	2 x 1 mm ²							
Switch door	2 x 1 mm²							

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

A2L

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A2L cooling connections

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			Connection a	Additional charge in grams of refrigerant / oil								
			Connexions	5 m	10 m	15 m	20 m	25 m	30 m	15 m	20 m	25 m	30 m
R-455A		-009	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"				90/80			
	IMP	-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		
	μ	-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	
	≥E	-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
	SOS	-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
	۹۲.	-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
	TEN	-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
	IN IN	-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
	GAT	-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
	Ĕ	-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