

kide**SPLIT****-20 °C****0 °C****COMMERCIAL EQUIPMENT****CENTRIFUGAL
SPLIT****ESF**

Commercial split refrigeration units for small volume cold storage rooms, with centrifugal fan, in medium and low temperature applications.

**GENERAL CHARACTERISTICS**

- Pre-charged with refrigerant (Max. length 10 m).
- Hermetic compressor.
- Service valves (Series 100 - 200 - 300).
- Liquid receiver.
- Ceramic filter dryer.
- Liquid sight glass.
- High and low pressure switch.
- Condensation control by pressure switch.
- Probe alert "dirty condenser".
- Thermostatic expansion valve in the evaporator.
- Solenoid valve in the evaporator.
- Centrifuge fan in the condenser (Max. length 10m, min. diameter 250 mm Series 100 ,315 mm Series 200-300 and 300x260 mm Serie 400).
- Automatic defrosting by heating element.
- Draintipe heating element in low T^a (2 m).
- Ceiling type evaporator with nitrogen (Series 100 - 200 - 300).
- Cubic evaporator with nitrogen (Series 400 - 500).
- Electrical supply cable (3 m) (Series 100 - 200 - 300).
- Electrical interconnection (2) evaporator (10 m) (Series 100 - 200 - 300).
- Remote multifunctional electronic control (5 m) (Series 100 - 200 - 300).
- Cable for light (3 m) (Series 100-200-300).
- Indoor use.
- Watertight electrical panel.
- Air extraction fan.
- Liquid injection in 400-500 series.

OPTIONS

- Winter Kit.
- Rotation / failure system for two units.
- Synchronized defrost system for two units.
- Voltage protector.
- Anti-corrosion treatment on condenser / evaporator coil.
- Exhaust air duct (100-200-300 series).
- Time control.
- Cubic evaporator (100-200-300 series).
- Humidifier external to the equipment and control (cooling).
- Electric box not integrated in the unit (independent).
- Anti-corrosive treatment for the condenser unit furniture.
- Monitoring and control system. See page 69.

Xwzb**ELECTRONIC CONTROLLER**

KIDE-Split units incorporate the advanced XW60K-2DI electronic controller as standard.

- Temperature control with maximum and minimum temperature recordings.
- "Jet Cool" function for rapid cooling
- Intelligent defrost.



CALCULATION BASIS - Pag. 168

0 °C -5 °C ÷ 10 °C		Refrigeration capacity	°C EXT	°C EXT		Compressor		Model UC.	Liq	Suct	R-455A	Nominal consumption	Max. load current	Evap. model	Flow	Noise level	Weight
Series	Model	W	m³	m³		HP	kW				kg	A	A		condens. evapora. m³/h		
100	ESF1006M1G	1.145	9	7	230/1/50	3/4	0,5	ECF1006M1G	3/8	1/2	<2	5,4	7,6	EEC3001M1G	1.030 - 1.000	32	72
	ESF1007M1G	1.475	12	9	230/1/50	1	0,7	ECF1007M1G	3/8	1/2	<2	6,5	9,2	EEC3001M1G	1.030 - 1.000	32	72
200	ESF2010M1G	1.750	16	14	230/1/50	1 1/4	0,9	ECF2010M1G	3/8	5/8	<3	9,4	11,3	EEC3022M1G	1.370 - 2.000	42	88
300	ESF3017M5G	2.510	30	25	400/3/50	1 1/2	1,1	ECF3017M5G	3/8	3/4	<3,5	5,3	6,4	EEC3003M1G	1.370 - 3.000	45	113
	ESF3020M5G	3.100	40	32	400/3/50	2	1,5	ECF3020M5G	3/8	3/4	<4	6,0	7,4	EEC3003M1G	1.370 - 3.000	45	113
400	ESF4025M5G	4.300	65	50	400/3/50	2 1/2	1,8	EEC2206M1G	1/2	3/4	<5	8,6	11,7	EEC2206M1G	2.900 - 3.200	45	170
	ESF4030M5G	5.020	86	67	400/3/50	3	2,2	ECF4030M5G	1/2	3/4	<5	9,6	11,8	EEC2206M1G	2.900 - 3.200	45	170
	ESF4035M5G	6.010	106	85	400/3/50	3 1/2	2,6	ECF4035M5G	1/2	3/4	<5	10,0	13,9	EEC2236M1G	2.900 - 5.490	45	170
500	ESF5040M5G	7.150	130	100	400/3/50	4	3	ECF5040M5G	1/2	7/8	<5,5	11,6	16,3	EEC2316M1G	3.270 - 5.600	45	200

i If the equipment is to operate in a working range between 0 and -5 °C, it will be necessary to include a drain resistor. (Consult the technical office).

-20 °C -25 °C ÷ -15 °C		Refrigeration capacity	°C EXT	°C EXT		Compressor		Model UC.	Liq	Suct	R-455A	Nominal consumption	Max. load current	Evap. model	Flow	Noise level	Weight
Series	Model	W	m³	m³		HP	kW				kg	A	A		condens. evapora. m³/h		
100	ESF1010L1G	850	5	4	230/1/50	3/4	0,5	ECF1010L1G	3/8	5/8	<2	5,3	7,5	EEC3001L1G	1.030 - 1.300	32	71
	ESF1015L1G	1.100	8	5	230/1/50	1 1/4	0,9	ECF1015L1G	3/8	5/8	<2	6,3	9,2	EEC3001L1G	1.030 - 1.300	32	67
200	ESF2015L1G	1.350	15	10	230/1/50	1 3/4	1,3	ECF2015L1G	3/8	5/8	<2,5	8,1	11,5	EEC3002L1G	1.370 - 3.000	40	94
300	ESF3017L5G	1.500	20	14	400/3/50	2	1,5	ECF3017L5G	3/8	3/4	<3,5	5,3	6,1	EEC3003L1G	1.370 - 4.000	45	123
	ESF3020L5G	2.000	25	18	400/3/50	2 1/2	1,8	ECF3020L5G	3/8	3/4	<3,5	6,9	8,9	EEC3003L1G	1.370 - 4.000	45	123
400	ESF4030L5G	2.840	36	28	400/3/50	3	2,2	ECF4030L5G	1/2	3/4	<5	9,7	14,8	EEC2156L1G	2.900 - 3.670	45	170
	ESF4040L5G	3.605	52	40	400/3/50	4	3	ECF4040L5G	1/2	3/4	<5	11,8	17,0	EEC2206L1G	2.900 - 3.200	45	180
500	ESF5050L5G	4.325	76	56	400/3/50	5	3,7	ECF5050L5G	1/2	7/8	<5,5	13,6	20,5	EEC2236L1G	3.270 - 5.490	45	190
	ESF5060L5G	5.300	111	77	400/3/50	6	4,7	ECF5060L5G	1/2	1 1/8	<5,5	15,8	24,8	EEC2316L1G	3.270 - 5.600	45	220

i Calculation made for 10 m equivalent lenght.

In the "SPLIT" units KIDE advises to install the drain pipe with syphon out of the coldroom.
For freezer rooms the piping should be metallic.
Duct must always go connected to the fan (Max. 10 m).

DIMENSIONS

Series	COND.						EVAP.				
	A	B	C	D1	D2	Model	A	B	C	D1	D2
100	370	385	710	610	276	1L	210	425	920	670	460
						1M	250	500	820	570	440
200	450	485	900	800	373	2L	250	500	1.310	1.050	460
						2M	250	500	1.200	950	460
300	500	485	900	800	373	3L	280	500	1.890	1.620	460
						3M	280	500	1.690	1.420	460
400	665	670	1.030	445	570	L403	440	450	1.145	925	410
						L404	440	450	1.145	1.375	410
						M425-30	440	450	1.145	1.375	410
						M435	440	450	1.595	1.375	410
500	915	750	1.050	480	630	L505	440	450	1.595	1.375	410
						L506	565	490	1.565	1.345	450
						M5	565	490	1.565	1.345	450

Series	U.C + EMB./PACK.				kg	EVAP.+EMB./PACK.				kg
	A	B	C			Model	A	B	C	
100	876	640	985	60		1L	300	530	1.015	25
						1M	300	530	1.015	20
200	876	640	985	75		2L	300	530	1.395	35
						2M	300	530	1.395	30
300	876	640	985	90		3L	330	535	1.980	50
						3M	330	535	1.980	45
400	1.126	740	1.070	130		L403	530	530	1.180	35
						L404	530	530	1.180	40
						M425-30	530	530	1.180	40
						M435	530	530	1.630	50
500	1.136	1.000	1.350	180		L505	530	530	1.630	50
						L507	655	570	1.600	55
						M5	655	570	1.600	55

