TECHNICAL DATA

MODEL		012 M1 S					018 M1 S				
SIZE		E1					E2				
VERSION (1)		U / O					U / O				
COOLING CAPACITY (2)		100%	80%	60%	40%	30%	100%	80%	60%	40%	30%
Total	kW	10,4	8,32	6,24	4,16	3,04	21,8	17,4	13,1	8,72	6,39
Sensible	kW	10,2	8,18	6,18	4,15	3,04	20,2	16,4	12,3	8,26	6,39
SHR (3)		0,98	0,98	0,99	1	1	0,93	0,92	0,93	0,94	1
Total power input (Comp. + Fans)	kW	2,82	1,93	1,27	0,78	0,53	6,5	4,83	3,22	1,91	1,41
"EC" SUPPLY FANS	n.	1					1				
Air flow	m^3/h	2800	2433	2065	1698	1500	4100	3364	2629	1893	1500
Nominal external static pressure	Pa	20	20	20	20	20	20	20	20	20	20
Maximum external static pressure	Pa	75	--	--	--	--	311	--	--	--	--
Power input (4)	kW	0,29	0,21	0,13	0,09	0,07	0,52	0,35	0,22	0,12	0,08
COMPRESSOR		Rotary					Scroll				
BLDC compressor	n.	1					1				
On/Off compressors	n.	0					0				
Cooling Capacity Control		Modulating					Modulating				
Compressors power input	kW	2,53	1,72	1,15	0,69	0,46	5,98	4,48	3	1,79	1,33
AIR FILTERS	n.	1					1				
Filtering surface	m^2	0,6					0,8				
Efficiency		G4					G4				
GAS CIRCUITS	n.	1					1				
POWER SUPPLY	V/Ph/Hz	400/3+N/50					400/3+N/50				
ENERGY EFFICIENCY INDEXES (2)											
EER - Energy Efficiency Ratio (5)	kW/kW	3,69	4,31	4,91	5,33	5,74	3,35	3,6	4,07	4,57	4,53
DIMENSIONS											
Length	mm	650					785				
Width	mm	675					675				
Height	mm	1925					1925				
NET WEIGHT Over	kg	210					240				
NET WEIGHT Under	kg	220					250				
REFRIGERANT CONNECTIONS											
Gas delivery	ODS Ø	12					16				
Liquid return	ODS Ø	12					12				
HYDRAULIC CONNECTIONS											
CONDENSATE DISCHARGE											
Rubber pipe – internal diameter	Ø mm	19					19				

THE COOLING CAPACITY DOES NOT CONSIDER THE SUPPLY FAN MOTOR THERMAL LOAD

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4. Corresponding to the nominal external static pressure.
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i-AV DX

TECHNICAL DATA

MODEL		**022 M1 S**					**030 M1 S**				
SIZE		**E3**					**E4**				
VERSION (1)		**U / O**					**U / O**				
COOLING CAPACITY (2)		**100%**	**80%**	**60%**	**40%**	**30%**	**100%**	**80%**	**60%**	**40%**	**30%**
Total	kW	23,9	19,2	14,3	9,56	6,73	39,3	31,4	23,6	15,7	11,9
Sensible	kW	23,9	18,9	14,3	9,16	6,73	39,3	31,4	23,6	15,7	11,9
SHR (3)		1	0,98	1	0,95	1	1	1	1	1	1
Total power input (Comp. + Fans)	kW	6,74	4,93	3,24	1,96	1,39	11,4	8,01	5,32	3,08	2,21
"EC" SUPPLY FANS	n.	1					1				
Air flow	m^3/h	5500	4442	3384	2326	1700	10000	8135	6271	4406	3500
Nominal external static pressure	Pa	20	20	20	20	20	20	20	20	20	20
Maximum external static pressure	Pa	831	--	--	--	--	191	--	--	--	--
Power input (4)	kW	0,78	0,42	0,25	0,13	0,07	2,04	1,12	0,5	0,26	0,16
COMPRESSOR		Scroll					Scroll				
BLDC compressor	n.	1					1				
On/Off compressors	n.	0					0				
Cooling Capacity Control		Modulating					Modulating				
Compressors power input	kW	5,96	4,51	2,99	1,83	1,32	9,32	6,9	4,82	2,82	2,05
AIR FILTERS	n.	2					2				
Filtering surface	m^2	1,2					2,1				
Efficiency		G4					G4				
GAS CIRCUITS	n.	1					1				
POWER SUPPLY	V/Ph/Hz	400/3+N/50					400/3+N/50				
ENERGY EFFICIENCY INDEXES (2)											
EER - Energy Efficiency Ratio (5)	kW/kW	3,55	3,87	4,41	4,88	4,84	3,45	3,92	4,44	5,1	5,38
DIMENSIONS											
Length	mm	1085					1305				
Width	mm	775					930				
Height	mm	1925					1980				
NET WEIGHT Over	kg	320					430				
NET WEIGHT Under	kg	330					440				
REFRIGERANT CONNECTIONS											
Gas delivery	ODS Ø	16					18				
Liquid return	ODS Ø	16					16				
HYDRAULIC CONNECTIONS											
CONDENSATE DISCHARGE											
Rubber pipe – internal diameter	Ø mm	19					19				

THE COOLING CAPACITY DOES NOT CONSIDER THE SUPPLY FAN MOTOR THERMAL LOAD

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TECHNICAL DATA

MODEL		**047 M1 S**					**042 M2 D**				
SIZE		**E5**					**E5**				
VERSION (1)		**U / O**					**U / O**				
COOLING CAPACITY (2)		**100%**	**80%**	**60%**	**40%**	**30%**	**100%**	**80%**	**60%**	**40%**	**30%**
Total	kW	54	43,2	32,4	21,6	16,8	49,2	39,4	29,5	19,7	14,6
Sensible	kW	53,1	43,2	32,4	21,6	16,9	49,2	39,4	29,5	19,7	14,6
SHR (3)		0,98	1	1	1	1	1	1	1	1	1
Total power input (Comp. + Fans)	kW	15,6	10,8	7,11	4,24	3,08	14	9,93	6,48	3,86	2,84
"EC" SUPPLY FANS	n.	1					1				
Air flow	m^3/h	12000	9881	7761	5642	4700	12000	9924	7848	5772	4700
Nominal external static pressure	Pa	20	20	20	20	20	20	20	20	20	20
Maximum external static pressure	Pa	217	--	--	--	--	283	--	--	--	--
Power input (4)	kW	2,27	1,4	0,76	0,35	0,23	2,05	1,28	0,69	0,33	0,22
COMPRESSOR		Scroll					Scroll				
BLDC compressor	n.	1					2				
On/Off compressors	n.	0					0				
Cooling Capacity Control		Modulating					Modulating				
Compressors power input	kW	13,4	9,43	6,35	3,89	2,85	11,9	8,64	5,79	3,53	2,62
AIR FILTERS	n.	3					3				
Filtering surface	m^2	2,6					2,59				
Efficiency		G4					G4				
GAS CIRCUITS	n.	1					2				
POWER SUPPLY	V/Ph/Hz	400/3+N/50					400/3+N/50				
ENERGY EFFICIENCY INDEXES (2)											
EER - Energy Efficiency Ratio (5)	kW/kW	3,46	4	4,56	5,09	5,45	3,51	3,97	4,55	5,1	5,14
DIMENSIONS											
Length	mm	1630					1630				
Width	mm	930					930				
Height	mm	1980					1980				
NET WEIGHT Over	kg	480					565				
NET WEIGHT Under	kg	490					575				
REFRIGERANT CONNECTIONS											
Gas delivery	ODS Ø	22					2x16				
Liquid return	ODS Ø	22					2x16				
HYDRAULIC CONNECTIONS											
CONDENSATE DISCHARGE											
Rubber pipe – internal diameter	Ø mm	19					19				

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i-AV DX

TECHNICAL DATA

MODEL		**068 M2 D**					**094 M2 D**				
SIZE		**E7**					**E8**				
VERSION (1)		**U / O**					**U / O**				
COOLING CAPACITY (2)		**100%**	**80%**	**60%**	**40%**	**30%**	**100%**	**80%**	**60%**	**40%**	**30%**
Total	kW	78,9	63,1	47,3	31,6	22,9	105	84	63	42	32,3
Sensible	kW	78,9	63,1	47,3	31,6	22,9	100	81,1	61,5	40,9	32,3
SHR (3)		1	1	1	1	1	0,95	0,96	0,97	0,97	1
Total power input (Comp. + Fans)	kW	22,1	15,8	10,5	6,19	4,34	30,5	21,2	14	8,43	6,07
"EC" SUPPLY FANS	n.	2					2				
Air flow	m^3/h	20000	15999	11997	7996	5800	22000	17956	13912	9868	8000
Nominal external static pressure	Pa	20	20	20	20	20	20	20	20	20	20
Maximum external static pressure	Pa	451	--	--	--	--	388	--	--	--	--
Power input (4)	kW	3,51	1,98	0,96	0,41	0,23	3,72	2,23	1,1	0,51	0,35
COMPRESSOR		Scroll					Scroll				
BLDC compressor	n.	2					2				
On/Off compressors	n.	0					0				
Cooling Capacity Control		Modulating					Modulating				
Compressors power input	kW	18,6	13,8	9,5	5,78	4,11	26,8	18,9	13	7,91	5,72
AIR FILTERS	n.	4					5				
Filtering surface	m^2	3,83					4,47				
Efficiency		G4					G4				
GAS CIRCUITS	n.	2					2				
POWER SUPPLY	V/Ph/Hz	400/3+N/50					400/3+N/50				
ENERGY EFFICIENCY INDEXES (2)											
EER - Energy Efficiency Ratio (5)	kW/kW	3,57	3,99	4,5	5,11	5,28	3,44	3,96	4,5	4,98	5,32
DIMENSIONS											
Length	mm	2175					2499				
Width	mm	930					930				
Height	mm	1980					1980				
NET WEIGHT Over	kg	650					805				
NET WEIGHT Under	kg	705					865				
REFRIGERANT CONNECTIONS											
Gas delivery	ODS Ø	2x18					2x22				
Liquid return	ODS Ø	2x16					2x22				
HYDRAULIC CONNECTIONS											
CONDENSATE DISCHARGE											
Rubber pipe – internal diameter	Ø mm	19					19				

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TECHNICAL DATA

MODEL		**120 M4 D**					**150 M4 D**				
SIZE		**E9**					**E9**				
VERSION (1)		**U**					**U / O**				
COOLING CAPACITY (2)		**100%**	**80%**	**60%**	**40%**	**30%**	**100%**	**80%**	**60%**	**40%**	**30%**
Total	kW	111	88,8	66,6	44,4	24,1	135	108	81	54	30,8
Sensible	kW	111	88,8	66,6	44,4	24,1	135	108	81	54	30,8
SHR (3)		1	1	1	1	1	1	1	1	1	1
Total power input (Comp. + Fans)	kW	31,6	22,4	14,9	9,43	4,42	41,4	28,6	19,3	11,7	6,04
"EC" SUPPLY FANS	n.	2					2				
Air flow	m^3/h	28000	23018	18037	13055	8500	32000	25911	19821	13732	8500
Nominal external static pressure	Pa	20	20	20	20	20	20	20	20	20	20
Maximum external static pressure	Pa	572	--	--	--	--	379	--	--	--	--
Power input (4)	kW	4,2	2,56	1,42	0,68	0,33	5,82	3,39	1,74	0,78	0,33
COMPRESSOR		Scroll					Scroll				
BLDC compressor	n.	2					2				
On/Off compressors	n.	2					2				
Cooling Capacity Control		Modulating					Modulating				
Compressors power input	kW	27,4	19,8	13,5	8,75	4,09	35,6	25,2	17,5	11	5,71
AIR FILTERS	n.	6					6				
Filtering surface	m^2	5,24					5,24				
Efficiency		G4					G4				
GAS CIRCUITS	n.	2					2				
POWER SUPPLY	V/Ph/Hz	400/3+N/50					400/3+N/50				
ENERGY EFFICIENCY INDEXES (2)											
EER - Energy Efficiency Ratio (5)	kW/kW	3,51	3,96	4,47	4,71	5,45	3,26	3,78	4,2	4,62	5,1
DIMENSIONS											
Length	mm	2900					2900				
Width	mm	930					930				
Height	mm	1980					1980				
NET WEIGHT Over	kg	--					--				
NET WEIGHT Under	kg	985					1010				
REFRIGERANT CONNECTIONS											
Gas delivery	ODS Ø	2x28					2x28				
Liquid return	ODS Ø	2x22					2x22				
HYDRAULIC CONNECTIONS											
CONDENSATE DISCHARGE											
Rubber pipe – internal diameter	Ø mm	19					19				

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