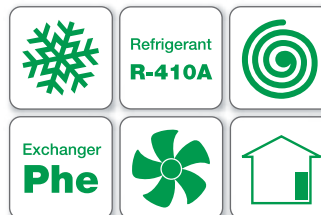




Cooling capacity: 170 kW ÷ 675 kW



GENERAL CHARACTERISTICS

- Multi scroll compressors
- Direct expansion plate to plate type evaporator; electrical heater to prevent freezing insulation made of closed cells material
- R-410A refrigerant
- High efficiency fin and tube type with integral subcooler
- Direct propeller fans type
- Electronic expansion valve
- MicroTech III controller compatible with BMS
- Cabinet and structure made of galvanized steel sheet and painted to provide a high resistance to corrosion; colour Ivory White (Munsell code 5Y7.5/1) (±RAL7044)

VERSIONS

EFFICIENCY

SE Standard efficiency

EER up to 2,85
⁽¹⁾**ESEER up to 4,26**

XE High efficiency

EER up to 3,17
⁽¹⁾**ESEER up to 4,48**

(1) (Standard Sound)

SOUND LEVELS

ST Standard sound

72,4 ÷ 79,5 dB(A)

LN Low sound

71,4 ÷ 76,1 dB(A)

XN Extra low sound

64,0 ÷ 72,1 dB(A)

STANDARD OPTIONS

- Direct on line starter (DOL)
- Double setpoint
- Evaporator victaulic kit
- 20 mm evaporator insulation
- Evaporator electric heater
- Evaporator flow switch
- Electronic expansion valve
- Ambient outside temperature sensor and set-point reset
- Hour run meter
- General fault contactor
- Main switch interlock

OPTIONS ON REQUEST

- Partial and total heat recovery
- Brine version
- Axial fans (250 Pa Lift)
- Condenser coil guards
- Evaporator area guards
- Cu-CU condenser coil
- Cu-CU-Sn condenser coil
- Alucoat fins coil
- Discharge line shutoff valve
- Suction line shutoff valve
- High/Low pressure side manometers
- One/Two centrifugal pump (high/low lift)
- Double pressure relief valve with diverter
- Compressor thermal overload relays
- Phase monitor
- Under/over voltage control
- Energy meter
- Capacitors for power factor correction
- Speedtrol (fan speed control device ON/OFF up to 18°C)
- Setpoint reset, demand limit and alarm from external device
- Compressors circuit breakers
- Fans circuit breakers
- Fans speed regulation (+ Fan silent mode)
- Soft starter

TECHNICAL DATA ACZC XE ST/LN Cooling only

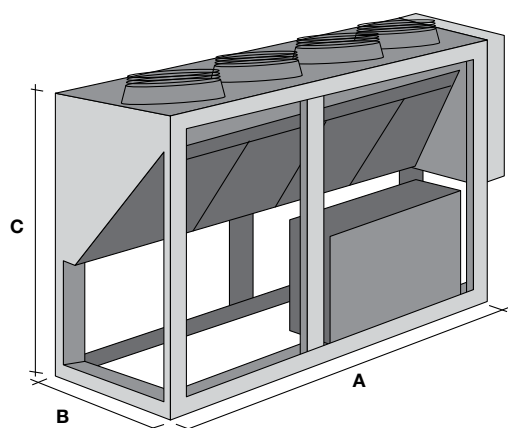
ACZC (single)		051.1	057.1	065.1	075.1	090.1	096.1
Cooling Capacity ¹	kW	178	201	227	264	316	336
Unit power input ¹	kW	57,4	64,6	73,0	85,1	102	108
EER	--	3,10	3,10	3,11	3,10	3,10	3,10
ESEER	--	4,14	4,24	4,03	4,31	4,30	4,27
Sound Pressure ST ²	dB(A)	74,9	75,7	76,4	75,5	76,5	77,0
Sound Pressure LN ²	dB(A)	72,7	73,0	73,5	73,2	73,6	73,8
Compressor	Type	Scroll					
Quantity	No.	2	2	2	3	3	3
Minimum capacity	%	50%	43%	50%	33%	27%	33%
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
N. of circuits	No.	1	1	1	1	1	1
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler					
Fan	Type	Direct Propeller Type					
Quantity	No.	4	4	5	5	6	6
Motor input	kW	1,75	1,75	1,75	1,75	1,75	1,75
Speed	rpm	900	900	900	900	900	900
Diameter	mm	800	800	800	800	800	800
Water heat exchanger	Type						
Water volume	l	12	12	14	14	14	14
Nominal Water pressure drop	kPa	27	34	35	47	69	54
Piping connections	"	3"	3"	3"	3"	3"	3"
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz					

NOTE:

(1) 12/7°C evaporator water temperature; 35°C ambient temperature.

(2) At 1 m, according to ISO 3744, at free field semispherical conditions.

Weight and dimensions		051.1	057.1	065.1	075.1	090.1	096.1
Shipping weight (ST)	kg	1722	1807	1871	2173	2304	2492
Operating weight (ST)	kg	1734	1819	1885	2188	2318	2507
Shipping weight (LN)	kg	1876	1965	2032	2370	2507	2705
Operating weight (LN)	kg	1889	1978	2047	2385	2522	2719
(A) Length (ST/LN)	mm	4413	4413	5313	5313	6213	6213
(B) Width (ST/LN)	mm	1224	1224	1224	1224	1224	1224
(C) Height (ST/LN)	mm	2271	2271	2271	2271	2271	2271



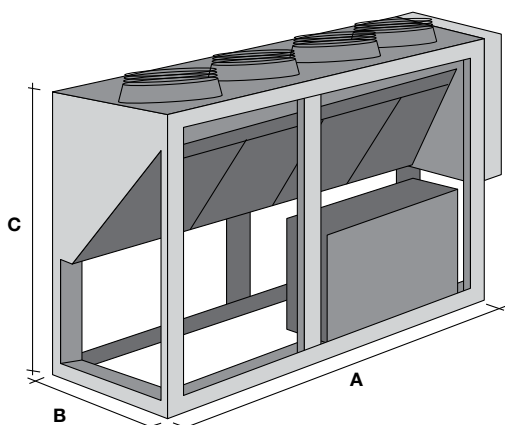
TECHNICAL DATA ACZC XE XN Cooling only

ACZC (single)		049.1	055.1	062.1	073.1	086.1	092.1
Cooling Capacity ¹	kW	173	194	220	255	303	323
Unit power input ¹	kW	56,0	63,7	71,0	84,5	101	108
EER	--	3,09	3,04	3,09	3,01	3,00	2,99
ESEER	--	4,59	4,69	4,46	4,79	4,76	4,68
Sound Pressure ²	dB(A)	65,9	67,2	68,0	66,7	68,1	68,7
Compressor	Type	Scroll					
Quantity	No.	2	2	2	3	3	3
Minimum capacity	%	50%	43%	50%	33%	27%	33%
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
N. of circuits	No.	1	1	1	1	1	1
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler					
Fan	Type	Direct Propeller Type					
Quantity	No.	4	4	5	5	6	6
Motor input	kW	0,75	0,75	0,75	0,75	0,75	0,75
Speed	rpm	705	705	705	705	705	705
Diameter	mm	800	800	800	800	800	800
Water heat exchanger	Type	Plate Heat Exchanger --- S&T: Single Pass Shell & Tube					
Water volume	l	12	12	14	14	14	14
Nominal Water pressure drop	kPa	26	32	33	44	43	50
Piping connections	"	3"	3"	3"	3"	3"	3"
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz					

NOTE:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature.
 (2) At 1 m, according to ISO 3744, at free field semispherical conditions.

Weight and dimensions		049.1	055.1	062.1	073.1	086.1	092.1
Shipping weight	kg	1970	2064	2134	2489	2632	2840
Operating weight	kg	1982	2076	2148	2503	2647	2855
(A) Length	mm	4413	4413	5313	5313	6213	6213
(B) Width	mm	1224	1224	1224	1224	1224	1224
(C) Height	mm	2271	2271	2271	2271	2271	2271



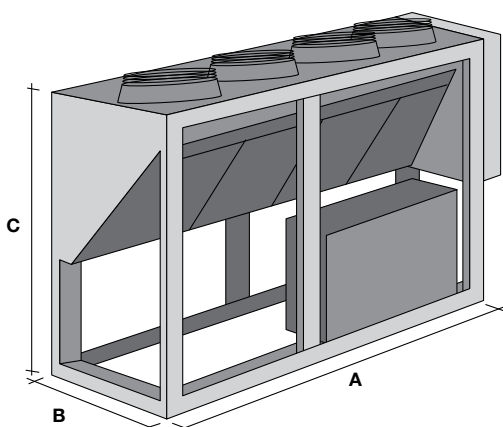
TECHNICAL DATA ACZC SE ST/LN Cooling only

ACZC (dual)		059.2	064.2	071.2	081.2	090.2	102.2	116.2	104.2	118.2	137.2	157.2	174.2
Cooling Capacity ¹	kW	207	225	248	284	315	360	408	360	408	482	553	612
Unit power input ¹	kW	72,6	84,0	92,4	107	120	140	153	140	153	185	205	226
EER	--	2,85	2,68	2,69	2,65	2,63	2,57	2,67	2,57	2,67	2,60	2,70	2,70
ESEER	--	3,91	3,89	3,93	3,86	3,90	3,85	3,90	4,14	4,16	4,26	4,18	4,21
Sound Pressure ST ²	dB(A)	74,9	75,4	75,9	76,0	76,0	77,0	77,6	77,8	78,5	77,7	78,7	79,5
Sound Pressure LN ²	dB(A)	72,7	72,9	73,0	73,3	73,3	73,9	74,0	74,7	74,8	75,1	75,7	76,0
Compressor	Type	Scroll											
Quantity	No.	4	4	4	4	4	4	4	4	4	6	6	6
Minimum capacity	%	25%	22%	25%	23%	25%	21%	25%	21%	25%	17%	14%	17%
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
N. of circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler											
Fan	Type	Direct Propeller Type											
Quantity	No.	4	4	4	5	5	6	6	6	6	8	10	10
Motor input	kW	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75
Speed	rpm	900	900	900	900	900	900	900	900	900	900	900	900
Diameter	mm	800	800	800	800	800	800	800	800	800	800	800	800
Water heat exchanger	Type	Plate Heat Exchanger --- S&T: Single Pass Shell & Tube											
Water volume	l	12	12	12	14	14	14	40	14	40	46	46	46
Nominal Water pressure drop	kPa	37	43	53	56	69	30	32	30	32	35	46	56
Piping connections	"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz											

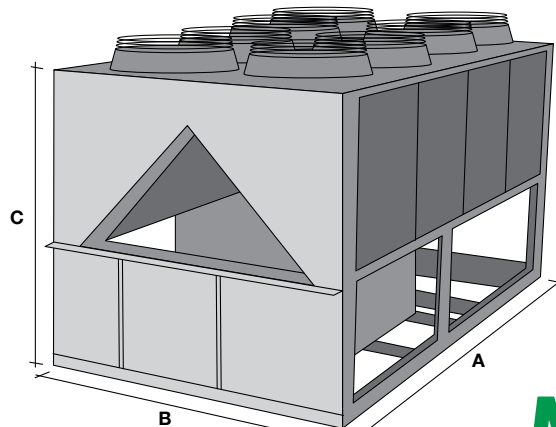
NOTE:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature.
 (2) At 1 m, according to ISO 3744, at free field semispherical conditions.

Weight and dimensions		059.2	064.2	071.2	081.2	090.2	102.2	116.2	104.2	118.2	137.2	157.2	174.2
Shipping weight (ST)	kg	2058	2058	2130	2202	2284	2409	2659	2509	2759	2990	3336	3558
Operating weight (ST)	kg	2070	2070	2142	2216	2298	2424	2699	2524	2799	3036	3382	3604
Shipping weight (LN)	kg	2297	2297	2373	2449	2535	2666	2968	2766	3068	3315	3679	3912
Operating weight (LN)	kg	2309	2309	2385	2463	2549	2681	3008	2781	3108	3362	3725	3958
(A) Length (ST/LN)	mm	4413	4413	4413	5313	5313	6213	6213	3210	3210	4110	5010	5010
(B) Width (ST/LN)	mm	1224	1224	1224	1224	1224	1224	1224	2258	2258	2258	2258	2258
(C) Height (ST/LN)	mm	2271	2271	2271	2271	2271	2271	2447	2221	2397	2221	2221	2221



Sizes 059.2 ÷ 116.2



Sizes 104.2 ÷ 174.2

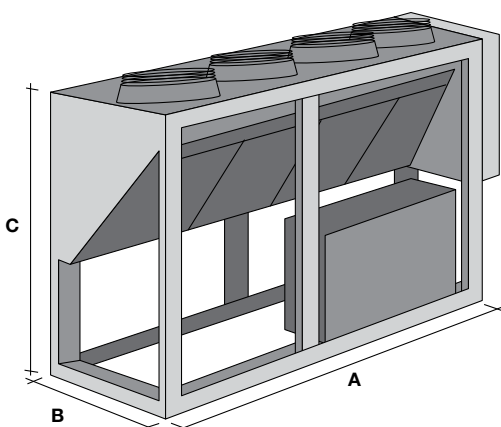
TECHNICAL DATA ACZC SE XN Cooling only

ACZC (dual)		057.2	061.2	067.2	077.2	085.2	097.2	109.2	099.2	111.2	130.2	150.2	166.2
Cooling Capacity ¹	kW	199	215	236	272	299	342	384	342	384	457	529	582
Unit power input ¹	kW	72,7	85,1	94,6	109	123	143	158	143	158	190	206	231
EER	--	2,73	2,52	2,49	2,49	2,42	2,39	2,44	2,39	2,44	2,41	2,56	2,53
ESEER	--	4,40	4,33	4,26	4,29	4,21	4,23	4,15	4,40	4,29	4,67	4,63	4,57
Sound Pressure ²	dB(A)	66,4	67,4	68,2	68,0	68,0	69,3	70,2	70,3	71,2	69,6	71,0	72,1
Compressor	Type	Scroll											
Quantity	No.	4	4	4	4	4	4	4	4	4	6	6	6
Minimum capacity	%	25%	22%	25%	23%	25%	21%	25%	21%	25%	17%	14%	17%
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
N. of circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler											
Fan	Type	Direct Propeller Type											
Quantity	No.	4	4	4	5	5	6	6	6	6	8	10	10
Motor input	kW	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
Speed	rpm	705	705	705	705	705	705	705	705	705	705	705	705
Diameter	mm	800	800	800	800	800	800	800	800	800	800	800	800
Water heat exchanger	Type	Plate Heat Exchanger --- S&T: Single Pass Shell & Tube											
Water volume	l	12	12	12	14	14	14	40	14	40	46	46	46
Nominal Water pressure drop	kPa	37	40	48	51	63	27	29	27	29	31	42	51
Piping connections	"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz											

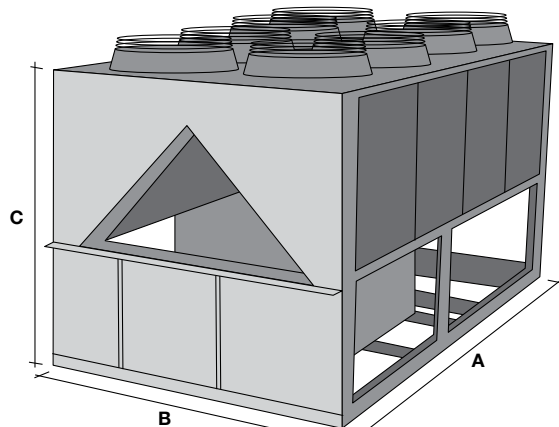
NOTE:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature.
 (2) At 1 m, according to ISO 3744, at free field semispherical conditions.

Weight and dimensions		057.2	061.2	067.2	077.2	085.2	097.2	109.2	099.2	111.2	130.2	150.2	166.2
Shipping weight	kg	2412	2412	2491	2571	2661	2799	3116	2899	3216	3481	3863	4108
Operating weight	kg	2424	2424	2504	2585	2676	2814	3156	2914	3256	3527	3909	4154
(A) Length	mm	4413	4413	4413	5313	5313	6213	6213	3210	3210	4110	5010	5010
(B) Width	mm	1224	1224	1224	1224	1224	1224	1224	2258	2258	2258	2258	2258
(C) Height	mm	2271	2271	2271	2271	2271	2271	2447	2221	2221	2221	2221	2221



Sizes 057.2 ÷ 109.2



Sizes 099.2 ÷ 166.2

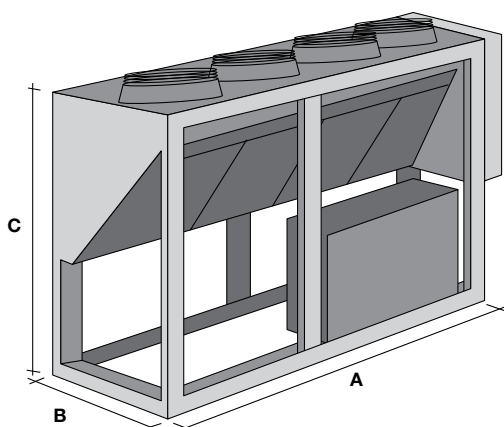
TECHNICAL DATA ACZC XE ST/LN Cooling only

ACZC (dual)		049.2	055.2	062.2	070.2	091.2	101.2	093.2	103.2	114.2	121.2	129.2	149.2	173.2	192.2
Cooling Capacity ¹	kW	171	195	221	245	317	357	317	357	404	429	5458	529	609	675
Unit power input ¹	kW	54,3	61,6	69,9	77,4	101	114	101	114	129	136	145	168	196	216
EER	--	3,15	3,16	3,16	3,17	3,12	3,12	3,12	3,12	3,13	3,15	3,15	3,14	3,11	3,12
ESEER	--	4,02	4,23	4,07	4,21	4,16	4,18	4,43	4,46	4,37	4,41	4,36	4,48	4,43	4,36
Sound Pressure ST ²	dB(A)	72,4	74,4	75,0	75,5	76,0	76,0	76,8	76,8	77,0	78,3	78,6	77,7	78,7	79,4
Sound Pressure LN ²	dB(A)	71,4	72,6	73,1	73,2	73,6	73,6	74,4	74,4	75,2	75,3	75,4	75,4	75,7	76,1
Compressor	Type	Scroll													
Quantity	No.	4	4	4	4	4	4	4	4	4	6	6	6	6	6
Minimum capacity	%	25%	21%	25%	22%	23%	25%	23%	25%	21%	20%	25%	17%	14%	17%
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
N. of circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler													
Fan	Type	Direct Propeller Type													
Quantity	No.	4	4	5	5	6	6	6	6	8	8	18	10	10	12
Motor input	kW	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75
Speed	rpm	900	900	900	900	900	900	900	900	900	900	900	900	900	900
Diameter	mm	800	800	800	800	800	800	800	800	800	800	800	800	800	800
Water heat exchanger	Type	Plate Heat Exchanger --- S&T: Single Pass Shell & Tube													
Water volume	l	12	14	14	14	14	40	14	40	40	46	46	46	60	60
Nominal Water pressure drop	kPa	25	27	34	42	22	23	22	23	31	29	30	41	44	55
Piping connections	"	3"	3"	3"	3"	3"	3"								
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz													

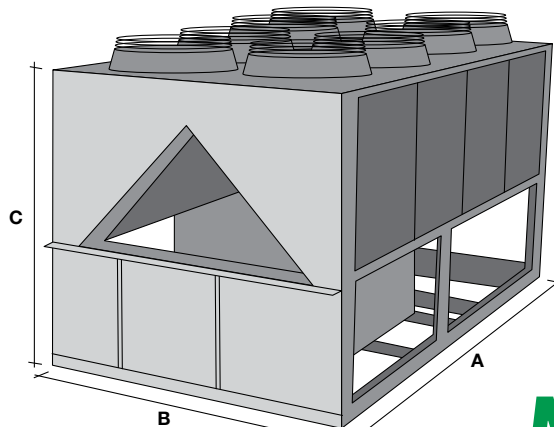
NOTE:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature.
(2) At 1 m, according to ISO 3744, at free field semispherical conditions.

Weight and dimensions		049.2	055.2	062.2	070.2	091.2	101.2	093.2	103.2	114.2	121.2	129.2	149.2	173.2	192.2
Shipping weight (ST)	kg	1688	1958	2210	2339	2500	2632	2600	2732	2744	2845	2861	3569	3667	4054
Operating weight (ST)	kg	1700	1973	2225	2353	2514	2672	2514	2772	2784	2891	2907	3615	3727	4115
Shipping weight (LN)	kg	1909	2193	2457	2592	2761	2900	2861	3000	3017	3124	3141	3923	4026	4434
Operating weight (LN)	kg	1921	2207	2472	2607	2776	2940	2876	3040	3057	3170	3187	3970	4087	4494
(A) Length (ST/LN)	mm	4413	4413	5313	5313	6213	6213	3210	3210	4110	4110	4110	5010	5010	5910
(B) Width (ST/LN)	mm	1224	1224	1224	1224	1224	1224	2258	2258	2258	2258	2258	2258	2258	2258
(C) Height (ST/LN)	mm	2271	2271	2271	2271	2271	2271	2221	2221	2221	2221	2221	2221	2221	2221



Sizes 049.2 ÷ 101.2



Sizes 093.2 ÷ 192.2

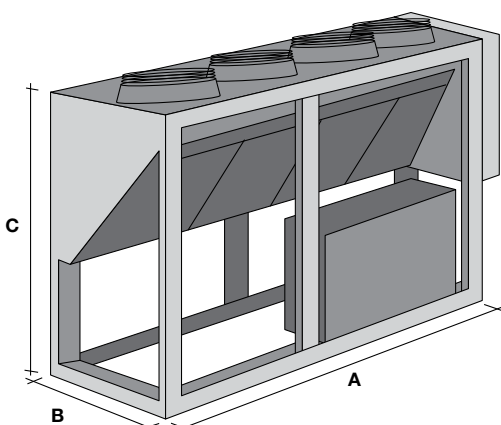
TECHNICAL DATA ACZC XE XN Cooling only

ACZC (dual)		047.2	053.2	060.2	068.2	087.2	096.2	089.2	098.2	110.2	116.2	123.2	143.2	165.2	184.2
Cooling Capacity ¹	kW	166	188	212	237	305	341	305	341	386	408	434	504	581	648
Unit power input ¹	kW	52,5	60,6	68,0	76,4	101	116	101	116	127	135	145	168	198	216
EER	--	3,16	3,11	3,12	3,10	3,03	2,94	3,03	2,94	3,04	3,02	2,99	3,00	2,94	3,00
ESEER	--	4,67	4,78	4,65	4,74	4,67	4,58	4,82	4,77	4,82	4,78	4,68	4,97	4,84	4,79
Sound Pressure ²	dB(A)	64,0	65,2	66,0	66,7	67,2	68,1	68,1	68,1	69,4	69,4	69,9	70,4	70,3	71,1
Compressor	Type	Scroll													
Quantity	No.	4	4	4	4	4	4	4	4	4	4	4	6	6	6
Minimum capacity	%	25%	21%	25%	22%	23%	25%	23%	25%	21%	20%	25%	17%	14%	17%
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
N. of circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler													
Fan	Type	Direct Propeller Type													
Quantity	No.	4	4	5	5	6	6	6	6	8	8	8	10	10	12
Motor input	kW	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
Speed	rpm	705	705	705	705	705	705	705	705	705	705	705	705	705	705
Diameter	mm	800	800	800	800	800	800	80	80	800	800	800	800	800	800
Water heat exchanger	Type	Plate Heat Exchanger --- S&T: Single Pass Shell & Tube													
Water volume	l	12	14	14	14	14	40	14	40	40	46	46	46	60	60
Nominal Water pressure drop	kPa	24	25	31	39	21	21	21	21	28	26	27	38	40	51
Piping connections	"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz													

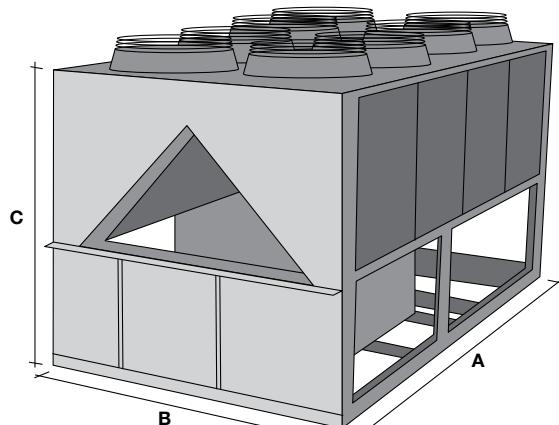
NOTE:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature.
 (2) At 1 m, according to ISO 3744, at free field semispherical conditions.

Weight and dimensions		047.2	053.2	060.2	068.2	087.2	096.2	089.2	098.2	110.2	116.2	123.2	143.2	165.2	184.2
Shipping weight	kg	2004	2303	2580	2722	2900	3045	3000	3145	3168	3280	3298	4120	4228	4655
Operating weight	kg	2017	2317	2594	2736	2914	3085	3014	3185	3208	3326	3344	4166	4288	4716
(A) Length	mm	4413	4413	5313	5313	6213	6213	3210	3210	4110	4110	4110	5010	5010	5910
(B) Width	mm	1224	1224	1224	1224	1224	1224	2258	2258	2258	2258	2258	2258	2258	2258
(C) Height	mm	2271	2271	2271	2271	2271	2271	2221	2221	2221	2221	2221	2221	2221	2221



Sizes 047.2 ÷ 096.2



Sizes 089.2 ÷ 184.2