


اطلاعات فنی | TECHNICAL DATA

MINI CHILLER	MODEL	ENR.25	ENR.30	ENR.38	ENR.45
Type		Scroll	Scroll	Scroll	Scroll
System		air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	25	31	37	45
E.E.R.	kW/kW	2.9	3.15	2.82	3.25
Inlet water fluid temperature	°C	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7
Fluid type	Type	water	water	water	water
Minimum ambient temperature	°C	-3	-3	-3	-3
Design ambient temperature	°C	35	35	35	35
Elevation a.s.l.	m	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54
COMPRESSOR DATA					
Number of compressors	N°	1	1	1	1
Number of circuits	N°	1	1	1	1
Total compressors nominal absorbed power	kW	7.8	8.4	11.5	12.4
Total compressors running current RLA	A	13.91	14.62	20.02	21.59
Steps	N°	1	1	1	1
EVAPORATOR DATA					
Number of evaporators	N°	1	1	1	1
Type of evaporator	Type	Plate	Plate	Plate	Plate
Nominal flow rate	m ³ /h	4.29	5.32	6.34	7.72
Minimum flow rate	m ³ /h	3	4	5	6
Maximum flow rate	m ³ /h	6	6	12	12
Pressure drops (evaporator+valves+piping)	kPa	45	39.2	37.2	42.5
Hydraulic connections	BSP/DN	1"	1 1/2"	1 1/2"	1 1/2"
PROCESS PUMP DATA					
Pump P3					
Maximum pump absorbed power	kW	1.28	1.28	2.2	2.2
Maximum pump absorbed current	A	2.37	2.37	4.24	4.24
Available pressure with single pump	kPa	225.67	218.08	245.08	236.05
Available pressure with double pump (optional)	kPa	212.25	197.96	237.22	224
Pump P5 (optional)					
Maximum pump absorbed power	kW	1.47	1.47	2.94	2.94
Maximum pump absorbed current	A	2.86	2.32	5.83	5.83
Available pressure with single pump (optional)	kPa	489.15	422.94	617.14	576.97
Available pressure with double pump (optional)	kPa	NA	402.82	609.28	564.92
TANK DATA					
Tank volume	dm ³	110	270	270	270
Expansion vessel volume (optional)	dm ³	8	8	8	8
AIR AXIAL FANS AND CONDENSER DATA					
Number of condenser coils	N°	1	1	1	1
Number of fans	N°	1	2	2	2
Total absorbed power	kW	0.81	1.44	1.62	1.44
Total absorbed current	A	1.5	2.82	3.08	2.82
Total air flow	m ³ /h	6800	16000	16400	15000
TOTAL ELECTRIC DATA (standard configuration)					
Nominal absorbed power	kW	9.89	11.12	15.32	16.04
Maximum absorbed current (FLA)	A	21.1	24.41	31.82	37.06
Maximum peak current (LRA)	A	127.37	120.37	144.24	178.24
Maximum peak current with soft-start (LRA) (optional)	A	NA	NA	NA	NA
NOISE DATA					
Sound pressure level at 10m according ISO3744	dBA	55.4	55.3	57.5	55.8
Sound pressure level at 10m according ISO3744 (Low Noise version)	dBA	NA	54.3	57.2	54.5
PRELIMINARY DIMENSIONS					
Structure in galvanized steel	RAL	7035	7035	7035	7035
Length	mm	1010	1610	1610	1610
Width	mm	720	860	860	860
Height	mm	1585	1550	1550	1550
PRELIMINARY WEIGHT					
Empty	kg	250	375	390	410
FREE SPACE					
Electrical panel side	mm	1000	1000	1000	1000
Opposite side of electrical panel	mm	1000	1000	1000	1000
Condensing coil sides	mm	1000	1500	1500	1500

NOTE

All data subject to change
 With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department
 TR45 option required with ambient temperature higher than 40°C
 LW option required with leaving water temperature lower than 4°C
 HW option required with leaving water temperature higher than 15°C
 With ambient temperature between -3°C and -25°C, LT (low temperature) option is required
 SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump.
 Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value


اطلاعات فنی | TECHNICAL DATA

CFT	MODEL	CFT.55	CFT.61	CFT.70	CFT.75	CFT.90	CFT.100	CFT.130
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	55	61	67	72	88	110	135
C.O.P.	kW/kW	3.18	3.72	3.47	3.21	3.49	3.78	3.79
E.E.R.	kW/kW	2.91	3.23	2.89	2.74	3.03	3.34	3.42
Inlet water fluid temperature	°C	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water
Minimum ambient temperature	°C	3	3	3	3	3	3	3
Design ambient temperature	°C	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54
COMPRESSOR DATA								
Number of compressors	N°	1	2	2	2	2	2	2
Number of circuits	N°	1	1	1	1	1	1	1
Total compressors nominal absorbed power	kW	17.3	16.4	19.3	22.4	25.2	29.1	35.6
Total compressors running current RLA	A	30.12	28.52	33.65	39	43.87	50.67	61.91
Steps	N°	1	2	2	2	2	2	2
EVAPORATOR DATA								
Type of evaporator	Type	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST
Nominal flow rate	m3/h	9.43	10.46	11.49	12.35	15.09	18.86	23.15
Minimum flow rate	m3/h	6	8	8	8	8	10	15
Maximum flow rate	m3/h	12	17	17	17	17	24	28
Pressure drops (evaporator+valves+piping)	kPa	53.91	65.5	46.71	52.94	51.13	47.71	59.04
Hydraulic connections	BSP/DN	1 1/2"	2"	2"	2"	2"	2"	DN65
PROCESS PUMP DATA								
Pump P3 (optional)								
Maximum pump absorbed power	kW	2.2	2.53	2.53	2.53	2.53	2.53	2.53
Maximum pump absorbed current	A	4.24	4.56	4.56	4.56	4.56	4.56	4.56
Available pressure with single pump (WP option)	kPa	216.58	176.89	195.68	189.45	189.39	182.64	212.23
Available pressure with double pump (DP option)	kPa	198.54	163.99	180.51	172	186.59	178.55	205.56
Pump P5 (optional)								
Maximum pump absorbed power	kW	2.94	6.12	6.12	6.12	6.12	6.12	6.12
Maximum pump absorbed current	A	5.83	10.4	10.4	10.4	10.4	10.4	10.5
Available pressure with single pump (PH option)	kPa	514.01	405.62	422.78	415	410.34	400.19	364.21
Available pressure with double pump (DPH option)	kPa	495.98	392.71	407.61	397.55	407.54	396.10	357.54
TANK DATA (optional)								
Volume (optional)	dm3	200	390	390	390	390	330	500
Expansion vessel volume (XV option)	dm3	12	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA								
Number of condenser coils	N°	1	1	1	1	1	1	1
Number of fans	N°	2	2	2	2	2	2	2
Total absorbed power	kW	1.62	2.5	3.88	3.88	3.88	3.88	3.88
Total absorbed current	A	3.08	4.96	7.8	7.8	7.8	7.8	7.8
Total air flow	m3/h	15600	25000	36000	36000	34000	32000	40000
TOTAL ELECTRIC DATA (standard configuration)								
Nominal absorbed power	kW	18.92	18.9	23.18	26.28	29.08	32.98	39.48
Maximum absorbed current (FLA)	A	39.52	43.4	51.52	56.8	67.8	80.68	97.02
Maximum peak current (LRA)	A	225	142.18	167.02	172.3	211.8	269.24	324.41
Maximum peak current with soft-start (LRA) (SF option)	A	180	118.58	139.02	144.3	177	224.24	270.01
NOISE DATA								
Sound pressure level at 10m according ISO3744	dBA	58.6	57.3	59.2	59.3	59.5	61	62.06
Sound pressure level at 10m according ISO3744 (low noise version) (LNJ option)	dBA	56.8	56.3	58.2	58.3	58.3	56	56.08
DIMENSIONS								
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035
Length	mm	1610	2220	2220	2220	2220	2220	220
Width	mm	860	1100	1100	1100	1100	1100	1000
Height	mm	1540	2100	2100	2100	2100	2100	2120
WEIGHT								
Empty	kg	375	530	560	565	585	670	1000
FREE SPACE								
Electrical panel side	mm	1000	1000	1000	1000	1000	1000	1000
Opposite side of electrical panel	mm	1000	1000	1000	1000	1000	1000	1000
Condensing coil sides	mm	1500	1500	1500	1500	1500	1500	2500

NOTE

* With double pump the chiller width is 1305 mm
 With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department
 TR45 option required with ambient temperature higher than 40°C
 LW option required with leaving water temperature lower than 4°C
 All data subject to change
 CFT comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.


اطلاعات فنی | TECHNICAL DATA

CFT	MODEL	CFT.160	CFT.185	CFT.200	CFT.230	CFT.280	CFT.340	CFT.370	CFT.430
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	150	170	204	227	277	319	365	410
C.O.P.	kW/kW	3.29	3.24	3.7	3.4	3.25	3.26	3.38	3.28
E.E.R.	kW/kW	2.92	2.92	3.24	2.97	2.92	2.97	3.05	3
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	3	3	3	3	3	3	3	3
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N°	4	4	4	4	4	4	4	4
Number of circuits	N°	2	2	2	2	2	2	2	2
Total compressors nominal absorbed power	kW	45.6	52.4	55.2	66.8	85.2	97.8	108	125
Total compressors running current RLA	A	79.39	91.23	96.16	116.3	148.34	170.28	188.04	217.63
Steps	N°	4	4	4	4	4	4	4	4
EVAPORATOR DATA									
Type of evaporator	Type	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST	Plate/ST
Nominal flow rate	m3/h	25.72	29.15	34.98	38.93	47.5	54.7	62.59	70.31
Minimum flow rate	m3/h	14	14	22	22	25	30	35	35
Maximum flow rate	m3/h	34	34	47	47	60	70	80	87
Pressure drops (evaporator+valves+piping)	kPa	57.25	47.84	38.94	42.94	50.29	52.72	54.63	53.51
Hydraulic connections	BSP/DN	DN65	DN65	DN125	DN125	DN125	DN125	DN150	DN150
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	kW	4.56	4.56	8.3	8.3	8.3	8.3	10.2	10.2
Maximum pump absorbed current	A	7.75	7.75	14.1	14.1	14.1	14.1	17.4	17.4
Available pressure with single pump (WP option)	kPa	203.46	208.77	278.98	271.81	254.67	239.84	234.68	227.71
Available pressure with double pump (DP option)	kPa	195.11	197.8	264.27	263.94	243.22	224.06	226.73	218.56
Pump P5 (optional)									
Maximum pump absorbed power	kW	10.2	10.2	16.22	16.22	16.22	16.22	16.22	19.94
Maximum pump absorbed current	A	17.4	17.4	26.6	26.6	26.6	26.6	26.6	32.7
Available pressure with single pump (PH option)	kPa	440.09	445.04	494.24	488.55	474.74	464.5	450.49	421.19
Available pressure with double pump (DPH option)	kPa	431.74	434.07	479.54	480.68	463.28	448.71	442.54	412.04
TANK DATA (optional)									
Volume (optional)	dm3	390	390	390	500	500	500	500	500
Expansion vessel volume (XV option)	dm3	19	19	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N°	1	1	1	1	1	1	1	1
Number of fans	N°	3	3	4	5	5	5	6	6
Total absorbed power	kW	5.82	5.82	7.76	9.7	9.7	9.7	11.64	11.64
Total absorbed current	A	11.7	11.7	15.6	19.5	19.5	19.5	23.4	23.4
Total air flow	m3/h	57000	54000	68800	91000	90000	85000	102000	96000
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	51.42	58.22	62.96	76.5	94.9	107.5	119.64	136.64
Maximum absorbed current (FLA)	A	109.7	131.7	148.48	165.26	197.94	227.3	260.56	289.56
Maximum peak current (LRA)	A	225.2	275.7	337.04	353.82	425.33	478.01	511.27	623.77
Maximum peak current with soft-start (LRA) (SF option)	A	197.2	240.9	292.04	308.82	370.93	416.01	449.27	542.17
NOISE DATA									
Sound pressure level at 10m according ISO3744	dBA	61.3	61.5	63.3	64.6	66	66	66.4	67.8
Sound pressure level at 10m according ISO3744 (low noise version) (LNJ option)	dBA	60.1	60.2	61.7	62.8	63.5	63.5	64	64.8
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	3355	3355	4355	5350	5350	5350	6350	6350
Width	mm	1105	1105*	1105*	1105	1105	1105	1105	1105
Height	mm	2180	2180	2180	2180	2180	2180	2180	2180
WEIGHT									
Empty	kg	1050	1100	1690	1915	2070	2150	2410	2565
FREE SPACE									
Electrical panel side	mm	1000	1000	1000	1000	1000	1000	1000	1000
Opposite side of electrical panel	mm	1000	1000	1000	1000	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

* With double pump the chiller width is 1305 mm
 With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department
 TR45 option required with ambient temperature higher than 40°C
 LW option required with leaving water temperature lower than 4°C
 All data subject to change
 CFT comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.


اطلاعات فنی | TECHNICAL DATA

SBS	MODEL	SBS.095	SBS.120	SBS.145	SBS.160	SBS.190	SBS.240	SBS.290	SBS.330
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	98.4	122.6	144.7	161.2	189	236	288.9	319.9
E.E.R. at design point	kW/kW	3.8	3.6	3.3	3.1	3.68	3.47	3.26	3.09
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	-20	-20	-20	-20	-20	-20	-20	-20
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N°	2	2	2	2	4	4	4	4
Number of circuits	N°	1	1	1	1	2	2	2	2
Compressor E.E.R.	kW/kW	4.43	4.03	3.56	3.34	4.3	3.89	3.56	3.33
Total Compressors Nominal Absorbed Power	kW	22.2	30.4	40.6	48.3	44	60.6	81.2	96.2
Total Compressors Running current RLA	A	39.1	53.6	71.5	85.1	77.5	106.8	143.1	169.5
Steps	N°	2	2	2	2	4	4	4	4
EVAPORATOR DATA									
Number of evaporators	N°	1	1	1	1	1	1	1	1
Type of evaporator	Type	Plate	Plate	Plate	Plate	ST	ST	ST	ST
Nominal flow rate	m3/h	16.87	21.02	24.81	27.64	32.41	40.47	49.54	54.86
Minimum flow rate	m3/h	13.00	16.00	16.00	20.00	23.00	29.00	36.00	38.00
Maximum flow rate	m3/h	23.00	23.00	42.00	42.00	42.00	53.00	66.00	70.00
Pressure drops (evaporator + valves + piping)	kPa	49.85	53.61	54.62	53.78	46.74	39.94	40.90	46.76
Hydraulic connections	BSP/DN	DN65	DN65	DN80	DN80	DN80	DN80	DN100	DN100
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	kW	3.46	4.56	4.56	4.56	8.30	8.30	8.30	8.30
Maximum pump absorbed current	A	6.33	7.75	7.75	7.75	14.10	14.10	14.10	14.10
Available pressure with single pump (WP option)	kPa	241.01	211.22	207.07	204.64	273.83	273.61	260.55	245.54
Available pressure with double pump (DP option)	kPa	230.05	195.33	200.12	194.68	260.90	264.63	247.58	229.62
Pump P5 (optional)									
Maximum pump absorbed power	kW	6.12	10.20	10.20	10.20	16.22	16.22	16.22	16.22
Maximum pump absorbed current	A	10.40	17.40	17.40	17.40	26.60	26.60	26.60	26.60
Available pressure with single pump (PH option)	kPa	406.02	448.21	443.68	441.49	487.55	490.88	482.28	470.24
Available pressure with double pump (DPH option)	kPa	395.06	432.33	436.73	431.53	474.62	481.90	469.31	454.32
TANK DATA (optional)									
Volume (optional)	dm3	150	150	150	150	300	300	300	300
Expansion vessel volume (XV option)	dm3	19	19	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N°	2	2	2	2	4	4	4	4
Number of fans	N°	2	2	2	2	4	4	4	4
Total absorbed power	kW	3.68	3.68	3.68	3.68	7.36	7.36	7.36	7.36
Total absorbed current	A	7.66	7.66	7.66	7.66	15.32	15.32	15.32	15.32
Total air flow	m3/h	41200	41200	41200	41200	82400	82400	82400	82400
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	25.88	34.08	44.28	51.98	51.36	67.96	88.56	103.56
Maximum absorbed current (FLA)	A	67.70	80.50	96.90	111.60	135.30	161.10	193.80	223.10
Maximum peak current (LRA)	A	211.70	269.10	324.30	362.30	279.30	349.60	421.20	473.80
Maximum peak current with soft-start (LRA) (SF option)	A	176.90	224.10	269.90	300.30	244.50	304.60	366.80	411.80
NOISE DATA									
Sound pressure level at 10m according ISO3744	dBA	58	60	62	62	61	63	65	65
Sound pressure level at 10m (low noise version)	dBA	57	58	59	59	60	61	62	62
Sound pressure level at 10m (super low noise version)	dBA	54	56	57	57	57	59	60	60
Sound pressure level at 10m (extra low noise version)	dBA	54	55	56	56	57	58	59	59
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	1610	1610	1610	1610	2910	2910	2910	2910
Width	mm	2210	2210	2210	2210	2210	2210	2210	2210
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT									
Empty	kg	1030	1200	1250	1280	1900	2220	2320	2350
FREE SPACE									
Electrical panel side	mm	1500	1500	1500	1500	1500	1500	1500	1500
Opposite side of electrical panel	mm	1500	1500	1500	1500	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

All data subject to change

** pump P5 includes the soft start (SF) option

* 45 feet container required for shipment.

With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department

TR45 option required with ambient temperature higher than 40°C

LW option required with leaving water temperature lower than 4°C

SBS comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.


اطلاعات فنی | TECHNICAL DATA

SBS	MODEL	SBS.330/F6	SBS.380	SBS.430	SBS.470	SBS.470/F8	SBS.530	SBS.570	SBS.610
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	345.5	387	433.3	464.8	490.9	527.4	563	603
E.E.R. at design point	kW/kW	3.53	3.5	3.26	3.15	3.46	3.42	3.34	3.23
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	-20	-20	-20	-20	-20	-20	-20	-20
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N°	4	4	6	6	6	6	6	6
Number of circuits	N°	2	2	2	2	2	2	2	2
Compressor E.E.R.	kW/kW	3.98	3.89	3.56	3.41	3.86	3.78	3.67	3.51
Total Compressors Nominal Absorbed Power	kW	86.8	99.6	121.8	136.4	127.1	139.7	153.6	171.8
Total Compressors Running current RLA	A	153.0	175.5	214.6	240.4	224	246.2	270.7	302.8
Steps	N°	4	4	4	4	4	4	4	4
EVAPORATOR DATA									
Number of evaporators	N°	1	1	1	1	1	1	1	1
Type of evaporator	Type	ST	ST	ST	ST	ST	ST	ST	ST
Nominal flow rate	m3/h	59.25	66.36	74.30	79.70	84.18	90.44	96.54	103.40
Minimum flow rate	m3/h	38.00	47.00	60.00	62.00	62.00	79.00	79.00	81.00
Maximum flow rate	m3/h	70.00	87.00	110.00	120.00	120.00	145.00	145.00	150.00
Pressure drops (evaporator + valves + piping)	kPa	54.90	56.77	55.85	59.71	66.81	58.79	51.83	55.79
Hydraulic connections	BSP/DN	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN150
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	kW	8.30	10.20	10.20	10.20	10.20	16.22	16.22	16.22
Maximum pump absorbed current	A	14.10	17.40	17.40	17.40	17.40	26.60	26.60	26.60
Available pressure with single pump (WP option)	kPa	229.27	228.59	221.16	211.60	199.78	253.70	256.91	248.25
Available pressure with double pump (DP option)	kPa	210.31	219.62	211.18	199.66	185.82	237.76	238.97	239.29
Pump P5 (optional)									
Maximum pump absorbed power	kW	16.22	24.85	24.85	24.85	24.85	24.85	31.88	31.88
Maximum pump absorbed current	A	26.60	42.40	42.40	42.40	42.40	42.40	53.50	53.50
Available pressure with single pump (PH option)	kPa	455.48	482.04	475.30	463.88	450.50	449.52	455.33	448.60
Available pressure with double pump (DPH option)	kPa	436.51	473.08	465.32	451.93	436.54	433.58	437.39	439.63
TANK DATA (optional)									
Volume (optional)	dm3	300	380	380	380	380	500	500	500
Expansion vessel volume (XV option)	dm3	19	19	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N°	6	6	6	6	8	8	8	8
Number of fans	N°	6	6	6	6	8	8	8	8
Total absorbed power	kW	11.04	11.04	11.04	11.04	14.72	14.72	14.72	14.72
Total absorbed current	A	22.98	22.98	22.98	23	31	30.64	30.64	30.64
Total air flow	m3/h	123600	123600	123600	123600	164800	164800	164800	164800
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	97.84	110.64	132.84	147.44	141.82	154.42	168.32	186.52
Maximum absorbed current (FLA)	A	230.80	260.10	290.60	320.00	327.70	357.00	386.40	415.40
Maximum peak current (LRA)	A	481.50	510.90	518.00	570.70	578.40	607.70	637.10	749.60
Maximum peak current with soft-start (LRA) (SF option)	A	419.50	448.90	463.60	508.70	516.40	545.70	575.10	668.00
NOISE DATA									
Sound pressure level at 10m according ISO3744	dBA	65	65	66	66	67	67	67	68
Sound pressure level at 10m (low noise version)	dBA	63	63	63	63	64	64	64	65
Sound pressure level at 10m (super low noise version)	dBA	61	61	62	62	62	62	62	64
Sound pressure level at 10m (extra low noise version)	dBA	60	60	60	60	61	61	61	62
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	4210	4210	4210	4210	5900	5900	5900	5900
Width	mm	2210	2210	2210	2210	2210	2210	2210	2210
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT									
Empty	kg	2740	2850	3270	3320	3900	3950	4050	4100
FREE SPACE									
Electrical panel side	mm	1500	1500	1500	1500	1500	1500	1500	1500
Opposite side of electrical panel	mm	1500	1500	1500	1500	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

All data subject to change

** pump P5 includes the soft start (SF) option

* 45 feet container required for shipment.

With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department

TR45 option required with ambient temperature higher than 40°C

LW option required with leaving water temperature lower than 4°C

SBS comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers, according to minimum SEPR value.


اطلاعات فنی | TECHNICAL DATA

SBSF	MODEL	SBSF.095	SBSF.120	SBSF.145	SBSF.160	SBSF.190	SBSF.240	SBSF.290	SBSF.330
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	94.1	115.7	146.5	170.4	180.8	223.1	295.3	327.8
E.E.R. at design point	kW/kW	3.42	3.15	3.56	3	3.33	3.07	3.29	3.15
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	-20	-20	-20	-20	-20	-20	-20	-20
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N°	2	2	2	2	4	4	4	4
Number of circuits	N°	1	1	1	1	2	2	2	2
Compressor E.E.R.	kW/kW	3.95	3.5	4.33	3.45	3.85	3.41	3.75	3.52
Total Compressors Nominal Absorbed Power	kW	23.8	33.1	33.8	49.4	47	65.4	78.8	93
Total Compressors Running current RLA	A	41.9	58.3	59.6	85.5	82.8	115.3	138.9	163.9
Steps	N°	2	2	2	2	4	4	4	4
FREE - COOLING INTEGRATED									
Cooling capacity	kW	94.1	115.7	146.5	170.4	180.8	223.1	295.3	327.8
Ambient temperature for 100% Free Cooling	°C	1.3	-0.4	2.8	1.2	1.6	0	1	0.1
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Free cooling pressure drop (Free Cooling Coil+Evaporator+Valves+piping)	kPa	121.14	149.4	106.34	112.69	113.89	133.6	129.47	151.28
EVAPORATOR DATA									
Number of evaporators	N°	1	1	1	1	1	1	1	1
Type of evaporator	Type	Plate	Plate	ST	ST	ST	ST	ST	ST
Nominal flow rate	m ³ /h	16.14	19.84	25.12	29.22	31	38.26	50.64	56.21
Minimum flow rate	m ³ /h	13.0	16.0	21.0	25.0	25.0	30.0	36.0	40.0
Maximum flow rate	m ³ /h	23.0	23.0	36.0	45.0	45.0	55.0	66.0	73.0
Pressure drops (evaporator+valves+piping)	kPa	58.44	62.33	57.24	55.7	52.28	47.25	59.82	68.24
Hydraulic connections	BSP/DN	DN65	DN65	DN80	DN80	DN80	DN80	DN100	DN100
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	kW	6.12	6.12	6.12	10.20	10.20	10.20	10.20	16.22
Maximum pump absorbed current	A	10.40	10.40	10.40	17.40	17.40	17.40	17.40	26.60
Available pressure with single pump (WP option)	kPa	337.21	293.84	216.82	256.46	253.80	229.19	218.55	254.37
Available pressure with double pump (DP option)	kPa	327.39	279.23	208.87	245.82	241.48	210.93	204.94	237.78
TANK DATA (optional)									
Volume (optional)	dm ³	150	150	300	300	300	300	380	380
Expansion vessel volume (XV option)	dm ³	19	19	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N°	2	2	4	4	4	4	6	6
Number of fans	N°	2	2	4	4	4	4	6	6
Total absorbed power	kW	3.68	3.68	7.36	7.36	7.36	7.36	11.04	11.04
Total absorbed current	A	7.66	7.66	15.32	15.32	15.32	15.32	22.98	22.98
Total air flow	m ³ /h	34000	34000	68000	68000	68000	68000	102000	102000
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	27.48	36.78	41.16	56.76	54.36	72.76	89.84	104.04
Maximum absorbed current (FLA)	A	67.7	80.5	103.1	133.8	135.3	161.1	201.4	230.8
Maximum peak current (LRA)	A	211.7	269.1	346.7	384.6	279.3	349.6	428.8	481.5
Maximum peak current with soft-start (LRA) (SF option)	A	176.9	224.1	289.2	322.6	244.5	304.6	374.4	419.5
NOISE DATA									
Sound pressure level at 10m according ISO3744	dBA	55.5	58.5	60.1	61.5	58.6	61.5	64.2	64.2
Sound pressure level at 10m (low noise version)	dBA	54.0	55.5	57.8	58.6	57.0	58.6	60.9	60.9
Sound pressure level at 10m (super low noise version)	dBA	51.0	52.5	54.8	55.6	54.0	55.6	57.9	57.9
Sound pressure level at 10m (extra low noise version)	dBA	51.8	54.1	56.0	57.1	54.8	57.1	59.7	59.7
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	1610	1610	3300	3300	3300	3300	4600	4600
Width	mm	2210	2210	2210	2210	2210	2210	2210	2210
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT									
Empty	kg	1120	1280	1950	1990	1990	2300	2900	2950
FREE SPACE									
Electrical panel side	mm	1500	1500	1500	1500	1500	1500	1500	1500
Opposite side of electrical panel	mm	1500	1500	1500	1500	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

All data subject to change

* 45 feet container required for shipment.

With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department


اطلاعات فنی | TECHNICAL DATA

SBSF	MODEL	SBSF.380	SBSF.430	SBSF.470	SBSF.470/F10	SBSF.530	SBSF.570	SBSF.570/F12	SBSF.610
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	387.8	432.6	465.5	483.7	521.4	553.4	577.5	592.3
E.E.R. at design point	kW/kW	3.38	3.17	3.07	3.28	3.23	3.15	3.34	3.05
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	-20	-20	-20	-20	-20	-20	-20	-20
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N°	4	6	6	6	6	6	6	6
Number of circuits	N°	2	2	2	2	2	2	2	2
Compressor E.E.R.	kW/kW	3.88	3.55	3.4	3.75	3.65	3.52	3.83	3.37
Total Compressors Nominal Absorbed Power	kW	100	121.8	137	128.9	143	157.2	150.8	176
Total Compressors Running current RLA	A	176.2	214.6	241.4	223.7	252	277	260.3	310.2
Steps	N°	4	4	4	4	4	4	4	4
FREE - COOLING INTEGRATED									
Cooling capacity	kW	387.8	432.6	465.5	483.7	521.4	553.4	577.5	592.3
Ambient temperature for 100% Free Cooling	°C	1.1	0.2	-0.4	1	0.5	0	1.1	-0.6
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Free cooling pressure drop (Free Cooling Coil+Evaporator+Valves+piping)	kPa	134.89	147.24	160.89	173.73	155.09	154.91	168.88	158.66
EVAPORATOR DATA									
Number of evaporators	N°	1	1	1	1	1	1	1	1
Type of evaporator	Type	ST	ST	ST	ST	ST	ST	ST	ST
Nominal flow rate	m3/h	66.5	74.18	79.82	82.95	89.41	94.9	99.03	101.57
Minimum flow rate	m3/h	47.0	58.0	62.0	62.0	78.0	78.0	78.0	84.0
Maximum flow rate	m3/h	87.0	107.0	115.0	115.0	142.0	142.0	142.0	143.0
Pressure drops (evaporator+valves+piping)	kPa	71.27	71.28	75.98	82.1	77.8	69.85	76.09	75.11
Hydraulic connections	BSP/DN	DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN150
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	kW	16.22	16.22	16.22	16.22	24.85	24.85	24.85	24.85
Maximum pump absorbed current	A	26.60	26.60	26.60	26.60	42.20	42.20	42.20	42.20
Available pressure with single pump (WP option)	kPa	265.42	247.31	228.57	212.78	266.15	263.57	247.52	256.24
Available pressure with double pump (DP option)	kPa	257.17	236.47	216.65	199.66	250.35	246.58	228.43	247.99
TANK DATA (optional)									
Volume (optional)	dm3	500	500	500	500	500	500	500	500
Expansion vessel volume (XV option)	dm3	19	19	19	19	19	19	19	19
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N°	8	8	8	10	10	10	12	10
Number of fans	N°	8	8	8	10	10	10	12	10
Total absorbed power	kW	14.72	14.72	14.72	18.4	18.4	18.4	22.08	18.4
Total absorbed current	A	30.64	30.64	30.64	38.3	38.3	38.3	45.96	38.3
Total air flow	m3/h	136000	136000	136000	170000	170000	170000	204000	170000
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	114.72	136.52	151.72	147.3	161.4	175.6	172.88	194.4
Maximum absorbed current (FLA)	A	267.8	298.3	327.7	335.3	364.7	394.0	401.7	423.0
Maximum peak current (LRA)	A	518.5	525.7	578.4	586.0	615.4	644.8	652.4	757.3
Maximum peak current with soft-start (LRA) (SF option)	A	456.5	471.3	516.4	524.0	553.4	582.8	590.4	675.7
NOISE DATA									
Sound pressure level at 10m according ISO3744	dBA	64.5	65.8	65.8	66.0	66.0	66.0	66.2	67.4
Sound pressure level at 10m (low noise version)	dBA	61.6	62.4	62.4	62.9	62.9	62.9	63.3	63.9
Sound pressure level at 10m (super low noise version)	dBA	58.6	59.4	59.4	59.9	59.9	59.9	60.3	60.9
Sound pressure level at 10m (extra low noise version)	dBA	60.1	61.3	61.3	61.6	61.6	61.6	61.9	62.9
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	5900	5900	5900	7200	7200	7200	8500	7200
Width	mm	2210	2210	2210	2210	2210	2210	2210	2210
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT									
Empty	kg	3730	4020	4100	4830	4830	4930	5600	5000
FREE SPACE									
Electrical panel side	mm	1500	1500	1500	1500	1500	1500	1500	1500
Opposite side of electrical panel	mm	1500	1500	1500	1500	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

All data subject to change

* 45 feet container required for shipment.

With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department

TR45 option required with ambient temperature higher than 40°C

LW option required with leaving water temperature lower than 4°C


اطلاعات فنی | TECHNICAL DATA

SBSF	MODEL	SBSF.610/F12	SBSF.660	SBSF.660/F14	SBSF.720	SBSF.720/F14	SBSF.840	SBSF.930	SBSF.1030
Type		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
System		air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled	air cooled
Cooling capacity	kW	616.1	661.7	682.5	700.4	720.4	856.4	957.7	1018.3
E.E.R. at design point	kW/kW	3.25	3.21	3.36	3.11	3.28	3.28	3.09	3.02
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Fluid type	Type	water	water	water	water	water	water	water	water
Minimum ambient temperature	°C	-20	-20	-20	-20	-20	-20	-20	-20
Design ambient temperature	°C	35	35	35	35	35	35	35	35
Elevation a.s.l.	m	0	0	0	0	0	0	0	0
Type of refrigerant gas	R	410A	410A	410A	410A	410A	410A	410A	410A
Electrical feed according EN 60204-1	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Electrical cabinet	IP	54	54	54	54	54	54	54	54
COMPRESSOR DATA									
Number of compressors	N°	6	6	6	6	6	9	9	9
Number of circuits	N°	2	2	2	2	2	3	3	3
Compressor E.E.R.	kW/kW	3.68	3.59	3.85	3.45	3.72	3.76	3.46	3.35
Total Compressors Nominal Absorbed Power	kW	167.5	184.2	177.5	202.8	193.9	227.9	277.1	304.4
Total Compressors Running current RLA	A	286.8	324.6	303.9	357.4	330.1	401.6	488.3	536.4
Steps	N°	4	4	4	4	4	6	6	6
FREE - COOLING INTEGRATED									
Cooling capacity	kW	616.1	661.7	682.5	700.4	720.4	856.4	957.7	1018.3
Ambient temperature for 100% Free Cooling	°C	0.6	0	1	-0.5	0.5	0.9	-0.5	-0.6
Inlet water fluid temperature	°C	12	12	12	12	12	12	12	12
Outlet water fluid temperature	°C	7	7	7	7	7	7	7	7
Free cooling pressure drop (Free Cooling Coil+Evaporator+Valves+piping)	kPa	171.76	163.45	173.72	175.05	185.4	166.67	170.82	177.22
EVAPORATOR DATA									
Number of evaporators	N°	1	1	1	1	1	1	1	1
Type of evaporator	Type	ST	ST	ST	ST	ST	ST	ST	ST
Nominal flow rate	m³/h	105.65	113.47	117.04	120.11	123.54	146.86	164.23	174.62
Minimum flow rate	m³/h	84.0	84.0	84.0	84.0	84.0	98.0	113.0	141.0
Maximum flow rate	m³/h	143.0	148.0	148.0	157.0	157.0	183.0	210.0	230.0
Pressure drops (evaporator+valves+piping)	kPa	81.36	86	91.43	90.21	95.54	80.74	89.78	93.09
Hydraulic connections	BSP/DN	DN150	DN150	DN150	DN150	DN150	DN150	DN200	DN200
PROCESS PUMP DATA									
Pump P3 (optional)									
Maximum pump absorbed power	kW	24.85	24.85	24.85	31.88	31.88	31.88	31.88	31.88
Maximum pump absorbed current	A	42.20	42.20	42.20	53.50	53.50	53.50	53.50	53.50
Available pressure with single pump (WP option)	kPa	240.58	243.98	231.45	238.07	227.09	240.41	232.08	222.73
Available pressure with double pump (DP option)	kPa	231.54	233.44	220.32	226.35	214.66	223.45	220.94	210.00
TANK DATA (optional)									
Volume (optional)	dm³	500	600	600	600	600	600	700	700
Expansion vessel volume (XV option)	dm³	19	38	38	38	38	38	38	38
AIR AXIAL FANS AND CONDENSER DATA									
Number of condenser coils	N°	12	12	14	12	14	18	18	18
Number of fans	N°	12	12	14	12	14	18	18	18
Total absorbed power	kW	22.08	22.08	25.76	22.08	25.76	33.12	33.12	33.12
Total absorbed current	A	45.96	45.96	53.62	45.96	53.62	68.94	68.94	68.94
Total air flow	m³/h	204000	204000	238000	204000	238000	306000	306000	306000
TOTAL ELECTRIC DATA (standard configuration)									
Nominal absorbed power	kW	189.58	206.28	203.26	224.88	219.66	261.02	310.22	337.52
Maximum absorbed current (FLA)	A	430.7	459.7	467.4	488.7	496.4	602.2	689.4	733.1
Maximum peak current (LRA)	A	764.9	793.9	801.6	822.9	830.6	852.9	1023.6	1067.3
Maximum peak current with soft-start (LRA) (SF option)	A	683.3	712.3	720.0	741.3	749.0	790.9	942.0	985.7
NOISE DATA									
Sound pressure level at 10m according ISO3744	dBA	67.6	68.6	68.7	69.4	69.5	71.2	71.2	71.2
Sound pressure level at 10m (low noise version)	dBA	64.2	64.9	65.2	65.5	65.8	67.3	67.3	67.3
Sound pressure level at 10m (super low noise version)	dBA	61.2	61.9	62.2	62.5	62.8	na	na	na
Sound pressure level at 10m (extra low noise version)	dBA	63.1	64.0	64.2	64.8	64.9	na	na	na
DIMENSIONS									
Structure in galvanized steel	RAL	7035	7035	7035	7035	7035	7035	7035	7035
Length	mm	8500	8500	9800	8500	9800	12400***	12400***	12400***
Width	mm	2210	2210	2210	2210	2210	2210	2210	2210
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT									
Empty	kg	5600	5600	6700	5700	6700	8250	8250	8250
FREE SPACE									
Electrical panel side	mm	1500	1500	1500	1500	1500	1500	1500	1500
Opposite side of electrical panel	mm	1500	1500	1500	1500	1500	1500	1500	1500
Condensing coil sides	mm	2500	2500	2500	2500	2500	2500	2500	2500

NOTE

All data subject to change

* 45 feet container required for shipment.

With glycol percentage over 30% and leaving water temperature lower than 0°C, pump need to be checked by technical department


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10
NOMINAL COOLING CAPACITY (1)	ECO.M1(3)	kW	247	-	434	478	522	606	652	757
TOTAL NOMINAL ABSORBED POWER (1)		kW	60,90	-	112,20	128,80	148,40	155,00	184,40	198,30
EER (1)		kW/kW	3,58	-	3,48	3,39	3,25	3,54	3,25	3,46
NOMINAL WATER FLOW		m3/h	42,53	-	74,57	82,29	89,80	104,24	112,15	130,15
EVAPORATOR PRESSURE DROP		kPa	22	-	71	60	70	64	71	64
NOMINAL COOLING CAPACITY (6)	NE.M1(3)	kW	297	-	515	568	600	720	771	913
TOTAL NOMINAL ABSORBED POWER (6)		kW	61,0	-	113,0	133,0	145,0	157,0	182,0	202,0
EER (6)		kW/kW	4,29	-	4,11	3,91	3,82	4,15	3,89	4,1
NOMINAL WATER FLOW		m3/h	36,50	-	63,30	69,80	73,80	88,40	94,70	112,20
EVAPORATOR PRESSURE DROP		kPa	17	-	52	61	48	67	51	48
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷80	-	43÷86	144÷287	52÷103	72÷144	79÷158	82÷163
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,3	-	10,2	10,2	16,2	16,2	16,2	16,2
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	14,1	-	17,4	17,4	26,6	26,6	26,6	26,6
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,2	-	24,9	24,9	31,9	31,9	31,9	31,9
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	28,6	-	42,4	42,4	53,5	53,5	53,5	53,5
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	-	6	6	6	8	8	10
CONDENSER COIL		nr.	4	-	6	6	6	8	8	10
MAXIMUM FANS ABSORBED POWER	EC	kW	8,16	-	12,24	12,24	12,24	16,32	16,32	20,40
MAXIMUM FANS ABSORBED CURRENT		A	13,84	-	20,76	20,76	20,76	27,68	27,68	34,60
TOTAL AIR FLOW		m3/h	79852	-	19778	119778	119778	159704	159704	199630
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	231,6	-	363,4	383,4	455,4	523,2	551,2	659,0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	666,8	-	1039,7	1146,7	1254,7	1380,6	1489,6	1634,5
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	565,2	-	881,7	969,3	1066,1	1176,0	1266,8	1398,3
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	65,0	-	69,1	69,1	68,0	68,6	69,4	69,7
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	61,9	-	65,3	65,3	64,5	65,3	65,8	66,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	60,6	-	64,5	64,5	63,5	64,1	64,8	65,3
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	-	4600	4600	4600	5900	5900	7200
WIDTH		mm	2210	-	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	-	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	3050	-	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3150	-	4150	4470	4700	5500	5650	6580

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Hitema Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F16	9103/F18	9113/F18	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M(3)	kW	898	1003	1160	1327	1438	-	1764	1980
TOTAL NOMINAL ABSORBED POWER (1)		kW	229,68	269,20	302,94	333,94	388,10	-	440,10	506,28
EER (1)		kW/kW	3,53	3,41	3,50	3,62	3,38	-	3,61	3,57
NOMINAL WATER FLOW		m3/h	154,48	172,48	199,58	228,26	247,25	-	303,43	340,62
EVAPORATOR PRESSURE DROP		kPa	68	69	73	81	90	-	74	90
NOMINAL COOLING CAPACITY (6)	NE.M(3)	kW	1070	1194	1389	1596	1738	-	2073	2244
TOTAL NOMINAL ABSORBED POWER (6)		kW	229,0	275,0	305,0	349,0	408,0	-	445,0	520,0
EER (6)		kW/kW	4,22	3,99	4,16	4,18	3,91	-	4,20	3,94
NOMINAL WATER FLOW		m3/h	131,40	146,70	170,70	196,10	213,50	-	254,70	275,80
EVAPORATOR PRESSURE DROP		kPa	71	64	54	60	97	-	71	60
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	108÷195	108÷195	123÷247	144÷287	154÷307	-	185÷370	185÷370
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	0,0	0,0	-	0,0	0,0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	0,0	0,0	-	0,0	0,0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA	NA	-	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	NA	NA	-	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	-	250	250
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	16	18	-	24	24
CONDENSER COIL		nr.	12	12	14	16	18	-	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	24,48	24,48	28,56	32,64	36,72	-	48,96	48,96
MAXIMUM FANS ABSORBED CURRENT		A	41,52	41,52	48,44	55,36	62,28	-	83,04	83,04
TOTAL AIR FLOW		m3/h	239556	239556	279482	319408	359334	-	435888	435888
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	786,8	886,8	954,6	962,4	1202,2	-	1443,6	1443,6
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	2370,4	2637,4	3167,3	3171,2	3705,1	-	3636,8	3636,8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1999,8	2231,6	2663,3	2667,2	3131,1	-	3132,8	3132,8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	70,6	71,3	72,1	72,2	72,8	-	73,6	73,6
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	67,2	67,7	68,5	68,7	69,3	-	69,4	69,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	66,1	66,8	67,5	67,7	68,3	-	68,8	68,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	8500	8500	9800	11100	12790	-	12880	12880
WIDTH		mm	2210	2210	2210	2210	2210	-	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	-	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	-	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	-	11800	12100

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Hitema Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	663/F4**	683/F6	773/F6	793/F8	863/F8	873/F10	883/F10	893/F12
NOMINAL COOLING CAPACITY (1)	ECO M1(3),	kW	242	-	365	489	536	613	665	767
TOTAL NOMINAL ABSORBED POWER (1)		kW	64.54	-	96.42	127.76	145.18	157.12	184.78	200.92
EER (1)		kW/kW	3.31	-	3.34	3.38	3.31	3.44	3.22	3.38
NOMINAL WATER FLOW		m3/h	41.54	-	62.70	84.07	92.18	105.43	114.33	131.93
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-1.26	-	-1.26	-1.35	-2.26	-1.39	-2.20	-1.80
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	28	-	80	72	58	67	51	74
FREE COOLING MODE PRESSURE DROPS (5)		kPa	92	-	140	133	127	134	127	129
NOMINAL COOLING CAPACITY (9)	NE M1(3)	kW	284	-	437	582	610	719	771	906
TOTAL NOMINAL ABSORBED POWER (9)		kW	64.8	-	99.1	129.6	141.8	157.7	182.0	203.8
EER (9)		kW/kW	3.88	-	3.91	3.97	3.84	4.02	3.78	3.94
NOMINAL WATER FLOW (9)		m3/h	34.90	-	53.70	71.50	74.90	88.30	94.70	111.30
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	5.00		4.83	4.80	4.23	5.00	4.15	4.39
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	21	-	77	71	54	64	50	54
FREE COOLING MODE PRESSURE DROPS (5)		kPa	91		146	139	127	135	130	119
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	30÷80	-	43÷86	52÷103	52÷103	72÷144	79÷158	82÷163
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	-	16.2	16.2	24.9	24.9	24.9	24.9
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	-	26.6	26.6	42.2	42.2	42.2	42.2
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	-	19.9	31.9	39.1	39.1	39.1	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	-	32.7	53.5	65.6	65.6	65.6	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	-	6	8	8	10	10	12
CONDENSER COIL		nr.	4		6	8	8	10	10	12
MAXIMUM FANS ABSORBED POWER	EC	kW	8.44	-	12.66	16.88	16.88	21.10	21.70	26.04
MAXIMUM FANS ABSORBED CURRENT		A	14.08	-	21.12	28.16	28.16	35.20	35.80	42.96
TOTAL AIR FLOW		m3/h	70984	-	106476	141968	141968	177460	177460	212952
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	231.6	-	347.4	391.2	463.2	531.0	559.0	666.8
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	666.8	-	925.7	1150.6	1258.6	1384.5	1493.5	1638.4
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	565.2	-	788.5	973.2	1070.0	1179.9	1270.7	1402.2
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	65.0	-	64.8	69.3	68.3	68.8	69.6	69.9
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (7) (8)		dB(A)	61.9	-	62.5	65.8	65.1	65.8	66.3	66.8
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (7) (8)		dB(A)	60.6	-	60.7	64.8	63.8	64.4	65.1	65.5
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	-	4600	5900	5900	7200	7200	8500
WIDTH		mm	2210	-	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	-	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	3050	-	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3150	-	4150	4470	4700	5500	5650	6580

The manufacturer reserves the right to modify specifications without notice

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.
- (9) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	963/F14	973/F14	983/F16	993/F16	9103/F18	9113/F18	973/F24***	983/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M1(3),	kW	906	1011	1165	1301	1410	-	1546	1708
TOTAL NOMINAL ABSORBED POWER (1)		kW	235.14	275.34	313.32	364.14	416.48	-	396.33	466.05
EER (1)		kW/kW	3.41	3.31	3.35	3.26	3.10	-	3.45	3.30
NOMINAL WATER FLOW		m3/h	155.87	173.87	200.37	223.71	242.51	-	265.85	293.76
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-1.95	-3.10	-3.20	-4.52	-3.50	-	-4.90	-6.60
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	80	75	85	83	97	-	90	109
FREE COOLING MODE PRESSURE DROPS (5)		kPa	137	141	153	163	176	-	141	169
NOMINAL COOLING CAPACITY (9)	NE.M1(3)	kW	1053	1175	1362	1518	1663	-	1781	1989
TOTAL NOMINAL ABSORBED POWER (9)		kW	233.0	280.0	314.0	372.0	428.0	-	401.0	471.0
EER (9)		kW/kW	4.00	3.79	3.91	3.73	3.56	-	3.94	3.81
NOMINAL WATER FLOW (9)		m3/h	129.40	144.40	167.30	186.50	204.30	-	218.80	244.40
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	4.39	3.05	2.87	1.26	2.30	-	0.90	0.00
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	71	53	77	76	90	-	63	77
FREE COOLING MODE PRESSURE DROPS (5)		kPa	143	129	156	170	183	-	118	141
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	108÷195	108÷195	123÷247	144÷287	154÷307	-	185÷370	185÷370
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	P3 (2)	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)			0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	P5 (2)	NA	NA	NA	NA	NA	-	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)			NA	NA	NA	NA	NA	-	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	-	200	200
FAN SECTION (AXIAL)										
FANS		nr.	14	14	16	16	18	-	24	24
CONDENSER COIL		nr.	14	14	16	16	18	-	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	30.38	30.38	34.72	34.72	39.06	-	51.60	51.60
MAXIMUM FANS ABSORBED CURRENT		A	50.12	50.12	57.28	57.28	64.44	-	85.44	85.44
TOTAL AIR FLOW		m3/h	248444	248444	283936	283936	319428	-	412608	412608
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	794.6	894.6	962.4	962.4	1202.2	-	1353.6	1443.6
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	2374.3	2641.3	3171.2	3171.2	3705.1	-	3080.8	3636.8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	2003.7	2235.5	2667.2	2667.2	3131.1	-	2675.0	3132.8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	70.8	71.5	72.2	72.2	72.8	-	72.8	73.6
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (7) (8)		dB(A)	67.5	68.0	68.7	68.7	69.3	-	68.9	69.4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (7) (8)		dB(A)	66.3	67.0	67.7	67.7	68.3	-	68.2	68.8
DIMENSIONS AND WEIGHT										
LENGTH		mm	9800	9800	11100	11100	12790	-	12880	12880
WIDTH		mm	2210	2210	2210	2210	2210	-	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	-	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7)		kg	7100	7250	8000	9200	9400	-	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	7400	7600	8350	9600	9800	-	11800	12100

The manufacturer reserves the right to modify specifications without notice

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.
- (9) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	250	280	310	350	390	440	500	560	
NOMINAL COOLING CAPACITY		kW	250,0	280,0	310,0	350,0	390,0	440,0	500,0	560,0	
TOTAL NOMINAL ABSORBED POWER		kW	70,8	77,9	83,5	97,8	108,0	121,1	156,7	143,6	
EER		kW/kW	3,53	3,59	3,71	3,58	3,61	3,63	3,19	3,90	
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55	
NOMINAL WATER FLOW		m3/h	43,0	48,1	53,3	60,1	67,0	75,6	85,9	96,2	
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	47	58	58	53	53	61	49	48	
FRIGORIFIC SECTION											
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL		nr.	1/1/27+108%	1/1/25+100%	1/1/20+101%	1/1/20+100%	1/1/16+102%	1/1/16+100%	2/2/26+102%	2/2/25+100%	
KIND OF EXPANSION ELEMENT		-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR		-	ST	ST	ST	ST	ST	ST	ST	ST	
ECONOMIZER			NO	NO	YES	NO	NO	YES	NO	NO	
TYPE OF ECONOMIZER		type	plate	plate	plate	plate	plate	plate	plate	plate	
HYDRAULIC SECTION											
WATER FLOW RANGE (6)		m3/h	32,0÷72,0	33,0÷82,0	49,0÷90,0	49,0÷108,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)		P3 (2)	kW	8,30	8,30	10,20	10,20	10,20	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)			A	14,10	14,10	17,40	17,40	17,40	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)		P5 (2)	kW	16,22	16,22	24,85	24,85	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)			A	26,60	26,60	42,40	42,40	42,40	42,40	53,50	53,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)		DN	DN100	DN100	DN100	DN125	DN125	DN125	DN125	DN150	
FAN SECTION (AXIAL)											
FANS		nr.	4	6	6	6	8	8	8	10	
MAXIMUM FANS ABSORBED POWER		EC	kW	7,36	11,04	11,04	11,04	14,72	14,72	18,40	
MAXIMUM FANS ABSORBED CURRENT			A	15,32	22,98	22,98	22,98	30,64	30,64	38,30	
TOTAL AIR FLOW			m3/h	82400	123600	123600	123600	164800	164800	206000	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	150,3	158,0	158,0	233,0	240,6	240,6	310,6	308,3	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	63,8	64,4	64,4	65,0	65,6	65,6	66,8	67,1	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	61,1	62,3	62,3	62,6	63,5	63,5	64,1	64,8	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)		dB(A)	59,5	60,4	60,4	60,9	61,6	61,6	62,6	63,0	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)		dB(A)	58,1	59,3	59,3	59,6	60,5	60,5	61,1	61,8	
DIMENSIONS AND WEIGHT											
LENGTH		mm	4600	4600	4600	5900	5900	5900	7200	7200	
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	3050	3100	3200	3600	3670	3750	5200	5250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	3180	3250	3370	3780	3850	3930	5500	5600	

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	620	700	780	850	920	1004	1110	1215
NOMINAL COOLING CAPACITY		kW	620,0	700,0	780,0	850,0	920,0	1004,0	1110,0	1215,0
TOTAL NOMINAL ABSORBED POWER		kW	171,1	195,7	224,3	234,4	260,1	273,3	321,7	338,8
EER		kW/kW	3,62	3,58	3,48	3,63	3,54	3,67	3,45	3,59
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55	5,52	5,52	5,51
NOMINAL WATER FLOW		m3/h	106,5	120,3	134,0	146,0	158,1	172,5	190,7	208,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	55	64	68	65	68	66	76	89
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL		nr.	2/2/20+102%	2/2/20+102%	2/2/17+106%	2/2/16+100%	2/2/16+100%	3/3/22+112%	3/3/22+100%	3/3/22+100%
KIND OF EXPANSION ELEMENT		-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR		-	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER			YES	NO	NO	YES	YES	NO	NO	YES
TYPE OF ECONOMIZER		type	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	94,0+188,0	102,0+203,0	108,0+210,0	117,0+210,0	124,0+227,0	125,0+250,0	141,0+270,0	141,0+270,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)		P3 (2)	kW	16,22	23,51	23,51	23,51	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		P5 (2)	A	26,60	39,00	39,00	39,00	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)		P5 (2)	kW	39,09	39,09	39,09	39,09	39,09	47.31**	47.31**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		P5 (2)	A	65,60	65,60	65,60	65,60	65,60	77,60	77,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)		DN	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
FAN SECTION (AXIAL)										
FANS		nr.	10	12	14	14	16	18	18	18
MAXIMUM FANS ABSORBED POWER		EC	kW	18,40	22,08	25,76	25,76	29,44	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		EC	A	38,30	45,96	53,62	53,62	61,28	68,94	68,94
TOTAL AIR FLOW		m3/h	206000	247200	288400	288400	329600	370800	370800	370800
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	308.3	466,0	473,6	473,6	481,3	698,9	698,9	698,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	67,1	68,1	68,3	68,3	68,6	69,8	69,8	69,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	64,8	65,6	66,1	66,1	66,5	67,4	67,4	67,4
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)		dB(A)	63,0	63,9	64,3	64,3	64,6	65,7	65,7	65,7
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)		dB(A)	61,8	62,6	63,1	63,1	63,5	64,4	64,4	64,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	8500	9800	9800	11100	11100	12400	12400	12400
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	5900	6550	6730	7450	7700	9100	9600	9600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	6200	6900	7100	7900	8200	9650	10200	10200

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	250	280	310	350	390	440	500	560
NOMINAL COOLING CAPACITY		kW	250,0	280,0	310,0	350,0	390,0	440,0	500,0	560,0
TOTAL NOMINAL ABSORBED POWER		kW	70,7	83,8	86,6	99,7	111,7	124,8	141,1	167,1
EER	W 12°C/7°C @ 35°C (1)	kW/kW	3,53	3,34	3,58	3,51	3,49	3,53	3,54	3,35
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,45	1,75	2,85	2,15	2,85	2,10	2,45	1,75
NOMINAL WATER FLOW		m3/h	43,0	48,1	53,3	60,1	67,0	75,6	85,9	96,2
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	47	58	58	53	53	61	49	48
FREE COOLING MODE PRESSURE DROPS (5)		kPa	120	143	136	144	129	139	129	142
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	1/1/27+108%	1/1/25+100%	1/1/20+101%	1/1/20+100%	1/1/16+102%	1/1/16+100%	2/2/26+102%	2/2/25+100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER		NO	NO	YES	NO	NO	YES	NO	NO	NO
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	32,0÷72,0	33,0÷82,0	49,0÷90,0	49,0÷108,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	10,20	10,20	16,22	16,22	16,22	16,22	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	17,40	26,60	26,60	26,60	26,60	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19,94	19,94	19,94	19,94	31,88	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	32,70	32,70	53,50	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)		DN	DN100	DN100	DN125	DN125	DN125	DN125	DN150	DN150
FAN SECTION (AXIAL)										
FANS	nr.	6	6	8	8	10	10	12	12	
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	14,72	14,72	18,40	18,40	22,08	22,08
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	30,64	30,64	38,30	38,30	45,96	45,96
TOTAL AIR FLOW		m3/h	123600	123600	164800	164800	206000	206000	247200	247200
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	158,0	158,0	165,6	240,6	248,3	248,3	326,0	316,0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	64,4	64,4	65,0	65,6	66,0	66,0	67,5	67,5	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	62,3	62,3	63,2	63,5	64,2	64,2	65,3	65,3	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	60,4	60,4	61,1	61,6	62,1	62,1	63,4	63,4	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	59,3	59,3	60,2	60,5	61,2	61,2	62,3	62,3	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4600	4600	5900	5900	7200	7200	8500	8500	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	3168	3208	4044	4160	4858	4923	5200	5250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	3476	3523	4448	4577	5369	5445	5912	5983	

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
 (2) Available pressure can be calculated from Hitema Online Selection Software
 (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
 (4) Pressure drops taken in account: evaporator, piping
 (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
 (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
 (7) Data referred to standard chiller configuration NP (no pump) and EC fans
 (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
 (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	620	700	780	850	920
NOMINAL COOLING CAPACITY		kW	620,0	700,0	780,0	850,0	920,0
TOTAL NOMINAL ABSORBED POWER		kW	178,5	203,0	227,9	241,7	273,1
EER		kW/kW	3,47	3,45	3,42	3,52	3,37
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,10	2,15	1,45	1,65	1,10
NOMINAL WATER FLOW		m3/h	106,5	120,3	134,0	146,0	158,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	55	64	68	65	68
FREE COOLING MODE PRESSURE DROPS (5)		kPa	139	153	172	155	168
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL		nr.	2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	2/2/16÷100%	2/2/16÷100%
KIND OF EXPANSION ELEMENT		-	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR		-	ST	ST	ST	ST	ST
ECONOMIZER			YES	NO	NO	YES	YES
TYPE OF ECONOMIZER		type	plate	plate	plate	plate	plate
HYDRAULIC SECTION							
WATER FLOW RANGE (7)		m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)		P3 (2)	kW	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)			A	42,20	42,20	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)		P5 (2)	kW	39,09	39,09	57.65*	57.65*
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)			A	65,60	65,60	93,50	93,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)		DN	DN150	DN150	DN200	DN200	DN200
FAN SECTION (AXIAL)							
FANS		nr.	14	16	16	18	18
MAXIMUM FANS ABSORBED POWER		EC	kW	25,76	29,44	29,44	33,12
MAXIMUM FANS ABSORBED CURRENT			A	53,62	61,28	61,28	68,94
TOTAL AIR FLOW			m3/h	288400	329600	329600	370800
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	323,6	481,3	481,3	488,9	488,9
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	67,8	68,6	68,6	68,8	68,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)		dB(A)	65,8	66,5	66,5	66,9	66,9
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)		dB(A)	63,8	64,6	64,6	64,9	64,9
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)		dB(A)	62,8	63,5	63,5	63,9	63,9
DIMENSIONS AND WEIGHT							
LENGTH		mm	9800	11100	11100	12790	12790
WIDTH		mm	2210	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)		kg	5900	6550	6730	7450	7700
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)		kg	7010	7632	7661	8493	8862

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
 (2) Available pressure can be calculated from Hitema Online Selection Software
 (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
 (4) Pressure drops taken in account: evaporator, piping
 (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
 (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
 (7) Data referred to standard chiller configuration NP (no pump) and EC fans
 (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
 (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option


اطلاعات فنی | TECHNICAL DATA

PERFORMANCES		Model	240	300	350	430	500	610	700
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	kW	232,8	291,0	339,5	417,1	485,0	591,7	679,0
NOMINAL HEATING CAPACITY (4)		kW	277,8	353,4	404,6	504,9	579,8	720,2	809,2
TOTAL NOMINAL ABSORBED POWER		kW	45,0	62,4	65,1	87,8	94,8	128,5	130,2
EER		kW/kW	5,17	4,67	5,22	4,75	5,12	4,61	5,22
COP (4)		kW/kW	6,17	5,67	6,22	5,75	6,12	5,61	6,22
SEPR (HT) (10)		-	7,03	7,03	8,01	8,02	8,04	8,05	8,02
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	m3/h	39,9	49,9	58,2	71,5	83,2	101,5	116,4
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	47,6	60,6	69,4	86,6	99,4	123,5	138,8
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	34,5	43,4	42,2	46,2	41,8	50,9	55,9
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	11,5	12,5	13,4	15,4	41,2	39,4	39,3
NOMINAL COOLING CAPACITY		kW	240,0	300,0	350,0	430,0	500,0	610,0	700,0
NOMINAL HEATING CAPACITY (4)		kW	283,7	360,5	413,2	515,3	592,0	734,7	826,4
TOTAL NOMINAL ABSORBED POWER		kW	43,7	60,5	63,2	85,3	92,0	124,7	126,4
EER		kW/kW	5,49	4,96	5,54	5,04	5,43	4,89	5,54
COP (4)		kW/kW	6,49	5,96	6,54	6,04	6,43	5,89	6,54
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	41,2	51,4	60,0	73,7	85,7	104,6	120,0
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	48,6	61,8	70,9	88,4	101,5	126,0	141,7	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	36,7	46,1	44,8	49,1	44,4	54,1	59,4	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	12,0	13,0	14,0	16,0	43,0	41,0	41,0	
FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	1/1/1	1/1/1	1/1/1	1/1/1	2/1/1	2/1/1	2/1/1	
COMPRESSORS STARTING METHOD	-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
HYDRAULIC SECTION (6)									
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	32÷64	36÷73	43÷86	63÷126	73÷140	85÷160	85÷160	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	40÷80	52÷104	59÷119	68÷136	70÷139	75÷150	75÷160	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	100	100	125	125	150	150	150	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	100	125	125	125	125	150	150	
TOTAL ELECTRIC DATA									
MAXIMUM ABSORBED CURRENT (F.L.A)	A	145,0	145,0	231,0	231,0	290,0	290,0	462,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	20,0	20,0	20,0	20,0	165,0	165,0	251,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	16,0	16,0	16,0	16,0	161,0	161,0	247,0	
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	62,0	62,0	63,0	63,0	65,0	65,0	66,0	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	57,0	57,0	58,0	58,0	60,0	60,0	61,0	
DIMENSIONS AND WEIGHT									
LENGTH	mm	2600	2600	2600	2600	3900	3900	4000	
WIDTH	mm	1500	1500	1500	1500	1600	1600	1600	
HEIGHT	mm	2000	2000	2000	2000	2000	2000	2000	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	2250	2850		3000	3650	3700	3800	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	2380	3000	3070	3200	3890	3990	4120	

Data referred to:

- (1) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
 (2) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water) (3) Pressure drops taken in account: heat exchanger, valves, piping
 (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
 (5) Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
 (6) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
 (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface(8) Weight will be confirmed in case of order
 (9) Data referred to standard compressors starting method, with different starting method this data will change
 (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value


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PERFORMANCES		Model	870	930	1050	1290	1460	1730	1960
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	kW	834,2	902,1	1018,5	1251,3	1416,2	1668,4	1901,2
NOMINAL HEATING CAPACITY (4)		kW	1009,9	1104,3	1213,7	1514,8	1690,6	2019,8	2279,6
TOTAL NOMINAL ABSORBED POWER		kW	175,7	202,2	195,2	263,5	274,4	351,4	378,4
EER		kW/kW	4,75	4,46	5,22	4,75	5,16	4,75	5,02
COP (4)		kW/kW	5,75	5,46	6,22	5,75	6,16	5,75	6,02
SEPR (HT) (10)		-	8,06	7,06	7,02	7,01	8,05	8,00	8,04
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	143,0	154,7	174,7	214,6	242,9	286,1	326,0
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	173,2	189,4	208,1	259,8	289,9	346,4	390,9	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	69,2	537,1	471,2	616,6	474,9	375,4	463,5	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	40,3	36,5	37,4	35,5	37,4	43,2	41,3	
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	kW	860,0	930,0	1050,0	1290,0	1460,0	1720,0	1960,0
NOMINAL HEATING CAPACITY (4)		kW	1030,6	1126,3	1239,5	1545,8	1726,4	2061,1	2327,4
TOTAL NOMINAL ABSORBED POWER		kW	170,6	196,3	189,5	255,8	266,4	341,1	367,4
EER		kW/kW	5,04	4,74	5,54	5,04	5,48	5,04	5,33
COP (4)		kW/kW	6,04	5,74	6,54	6,04	6,48	6,04	6,33
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	147,5	159,5	180,1	221,2	250,4	294,9	336,1
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	176,7	193,1	212,6	265,1	296,0	353,4	399,1
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	73,6	570,9	500,8	655,3	504,7	398,9	492,7	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	42,0	38,0	39,0	37,0	39,0	45,0	43,0	
FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSER	nr.	2/1/1	3/1/1	3/1/1	3/1/1	4/1/1	4/1/1	5/1/1	
COMPRESSORS STARTING METHOD	-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
HYDRAULIC SECTION (6)									
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	462,0	32÷59	39÷78	45÷91	52÷103	58÷116	71÷142	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	251,0	102÷204	130÷225	140÷323	165÷380	195÷395	201÷442	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	247,0	150	150	200	200	250	250	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	150	150	200	200	200	250	250	
TOTAL ELECTRIC DATA									
MAXIMUM ABSORBED CURRENT (F.L.A)	A	462,0	435,0	693,0	693,0	924,0	924,0	1155,0	
MAXIMUM PEAK CURRENT (L.R.A)(9)	A	251,0	310,0	482,0	482,0	713,0	713,0	944,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)(9)	A	247,0	306,0	478,0	478,0	709,0	709,0	940,0	
NOISE DATA									
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	66,0	66,8	67,8	67,8	69,0	69,0	70,0	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	61,0	61,8	62,8	62,8	64,0	64,0	65,0	
DIMENSIONS AND WEIGHT									
LENGTH	mm	4000	4200	4200	4200	5000	5000	5000	
WIDTH	mm	1600	1800	1800	1800	2210	2210	2210	
HEIGHT	mm	2000	2100	2100	2100	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	3900	4250	4650	5250	6300	7180	7950	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kq	4300	4720	5200	5850	7120	8180	9050	

Data referred to:

- (1) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
 (2) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water) (3) Pressure drops taken in account: heat exchanger, valves, piping
 (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
 (5) Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
 (6) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
 (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface(8) Weight will be confirmed in case of order
 (9) Data referred to standard compressors starting method, with different starting method this data will change
 (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value


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PERFORMANCES		Model	2150	2450	2600	2950	3200
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	kW	2085,5	2374,6	2473,5	2858,6	3104,0
NOMINAL HEATING CAPACITY (4)		kW	2524,7	2857,3	2989,9	3451,4	3728,1
TOTAL NOMINAL ABSORBED POWER		kW	439,2	482,7	516,4	592,8	624,1
EER		kW/kW	4,75	4,92	4,79	4,82	4,97
COP (4)		kW/kW	5,75	5,92	5,79	5,82	5,97
SEPR (HT) (10)		-	8,06	8,06	8,01	8,04	8,02
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	357,6	407,2	424,2	490,2	532,3
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	432,9	490,0	512,7	591,9	639,3	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	382,9	518,1	439,5	457,3	489,5	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	44,2	40,3	44,2	44,2	45,1	
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	kW	2150,0	2448,0	2550,0	2947,0	3200,0
NOMINAL HEATING CAPACITY (4)		kW	2576,4	2916,7	3051,4	3522,5	3805,9
TOTAL NOMINAL ABSORBED POWER		kW	426,4	468,7	501,4	575,5	605,9
EER		kW/kW	5,04	5,22	5,09	5,12	5,28
COP (4)		kW/kW	6,04	6,22	6,09	6,12	6,28
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	368,7	419,8	437,3	505,4	548,7
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	441,8	500,2	523,3	604,1	652,6
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	407,0	550,7	467,1	486,0	520,2	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	46,0	42,0	46,0	46,0	47,0	
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSER	nr.	5/1/1	6/1/1	6/1/1	7/1/1	8/1/1	
COMPRESSORS STARTING METHOD	-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
HYDRAULIC SECTION (6)							
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	81÷162	96÷192	120÷224	129÷258	147÷294	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	212÷488	252÷580	265÷600	305÷671	329÷800	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	250	300	300	300	300	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	250	300	300	300	300	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A)	A	1155,0	1386,0	1386,0	1617,0	1848,0	
MAXIMUM PEAK CURRENT (L.R.A)(9)	A	944,0	1175,0	1175,0	1406,0	1637,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)(9)	A	940,0	1171,0	1171,0	1402,0	1633,0	
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	70,0	70,8	70,8	71,5	72,0	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	65,0	65,8	65,8	66,5	67,0	
DIMENSIONS AND WEIGHT							
LENGTH	mm	5000	6000	6200	7400	7400	
WIDTH	mm	2210	2210	2210	2210	2210	
HEIGHT	mm	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	8380	8530	9000	9600	10300	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	9570	10000	10500	11400	11600	

Data referred to:

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