Low-temperature unit
ANL 178 TTK 100/35WL-2-E

Electrical data	
Supply voltage	400V / 50Hz / 3Ph
Max. current draw	365 A
Minimum cable cross-section for 25 m feed	5x 185 mm²

Refrigeration circuit	
Refrigerant	R507A
Number of refrigeration circuits	2

Consumer circuit	
Pump head	3,5 bar
Volume flow	30

Dimensions and weight	
Length	6.100 mm
Width	2.450 mm
Height	2.600 mm
Weight	8.500 kg

Connections	
Consumer	2x Flansch DN 100

Operating environment
Max. 35 °C Außentemperatur

Coolant
Tyfoxit F 50 Calciumchlorid 30 % Wasser / Glykol

Special equipment
Fernwartung: UMTS-Router Leistungsmessung: Kälteleistung

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Table 1: Water-cooled at +38 °C inlet (e.g. glycol) tc = 48 °C

Brine temperature [°C]	Evaporation [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-40	-45	100	78.6	126.8	201.2	147.4
-35	-40	100	99.6	131	207.6	181.6
-30	-35	100	123.6	136	215.2	219.8
-25	-30	100	150.6	141.6	223.4	261.8
-20	-25	100	181.6	147.4	232.2	308.6

Table 2: Water-cooled at +27 °C inlet (e.g. cooling tower) tc = 37 °C

Brine temperature [°C]	Evaporation [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-40	-45	100	91	98.8	159.6	166.6
-35	-40	100	114.2	103.6	166.6	204.6
-30	-35	100	141	108.4	174	247
-25	-30	100	172	113.4	181.4	289.8
-20	-25	100	207.2	118.4	189	331.2

Table 3: Water-cooled at +8 °C inlet (e.g. chiller) tc = 20 °C

Brine temperature [°C]	Evaporation [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-40	-45	100	101.2	71.2	119.2	174.4
-35*	-40*	100*	127.8*	75.2*	125*	205.8*
-30	-35	100	158.6	79.2	130.8	241.4
-25	-30	100	194	83.4	136.6	281.8
-20	-25	100	234.6	87.6	143	327.8

The cooling capacity stated above is the net capacity at the evaporator. The heat input into the hydraulic system caused by external pumps and insulation losses must be taken into account.

****Rated operating point***

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