Low-temperature unit
ANL 141 TTK 54W-1

Electrical data	
Supply voltage	400V / 50Hz / 3Ph
Max. current draw	196 A
Power at rated load	34.6 kW
Minimum cable cross-section for 25 m feed	5x 70 mm²

Refrigeration circuit	
Refrigerant	R507A
Number of refrigeration circuits	1
Number of compressors	2
Power stages	0-50-100

Condenser circuit	
Volume flow (flow temp +8 °C)	11-35 m³/h
Volume flow (flow temp +27 °C)	9-29 m³/h
Volume flow (flow temp +38 °C)	6-26 m³/h
Minimum inlet pressure	1 bar

Dimensions and weight	
Length	3.520 mm
Width	1.300 mm
Height	2.440 mm
Weight	2.000 kg

Connections	
Consumer	2x Flansch DN 80
Filling connection	2x Flansch DN 65

Sound pressure level	
at 10 m	73 dB(A)

Operating environment
min. +5°C max. +35°C

Coolant
Wasser/ Glykol, Calciumchlorid

Special equipment
Fernwartung: UMTS-Router

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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						
-35	-40	100	25.2	33.8	96.4	59
-30	-35	100	37.8	43.2	104.4	80.8
-25	-30	100	52.8	52.4	113.6	105.4
-20	-25	100	71	61.8	124.2	133

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	23.8	28.4	92.4	52.4
-35	-40	100	36.4	36	98.2	72.6
-30	-35	100	51.8	43.8	105	95.6
-25	-30	100	70.4	51.4	112.6	122
-20	-25	100	92.6	59.2	121.2	152.2

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	39.2	29	92.8	68.4
-35*	-40*	100*	54.2*	34.6*	97*	89*
-30	-35	100	73	40	101.6	113.4
-25	-30	100	96	45.6	106.8	142
-20	-25	100	123.6	51	112.2	175

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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