

KKT Water Chiller for MAGNETOM AVANTO MAGNETOM ESPREE MAGNETOM Trio, A Tim System



Siemens Medical Solutions AG

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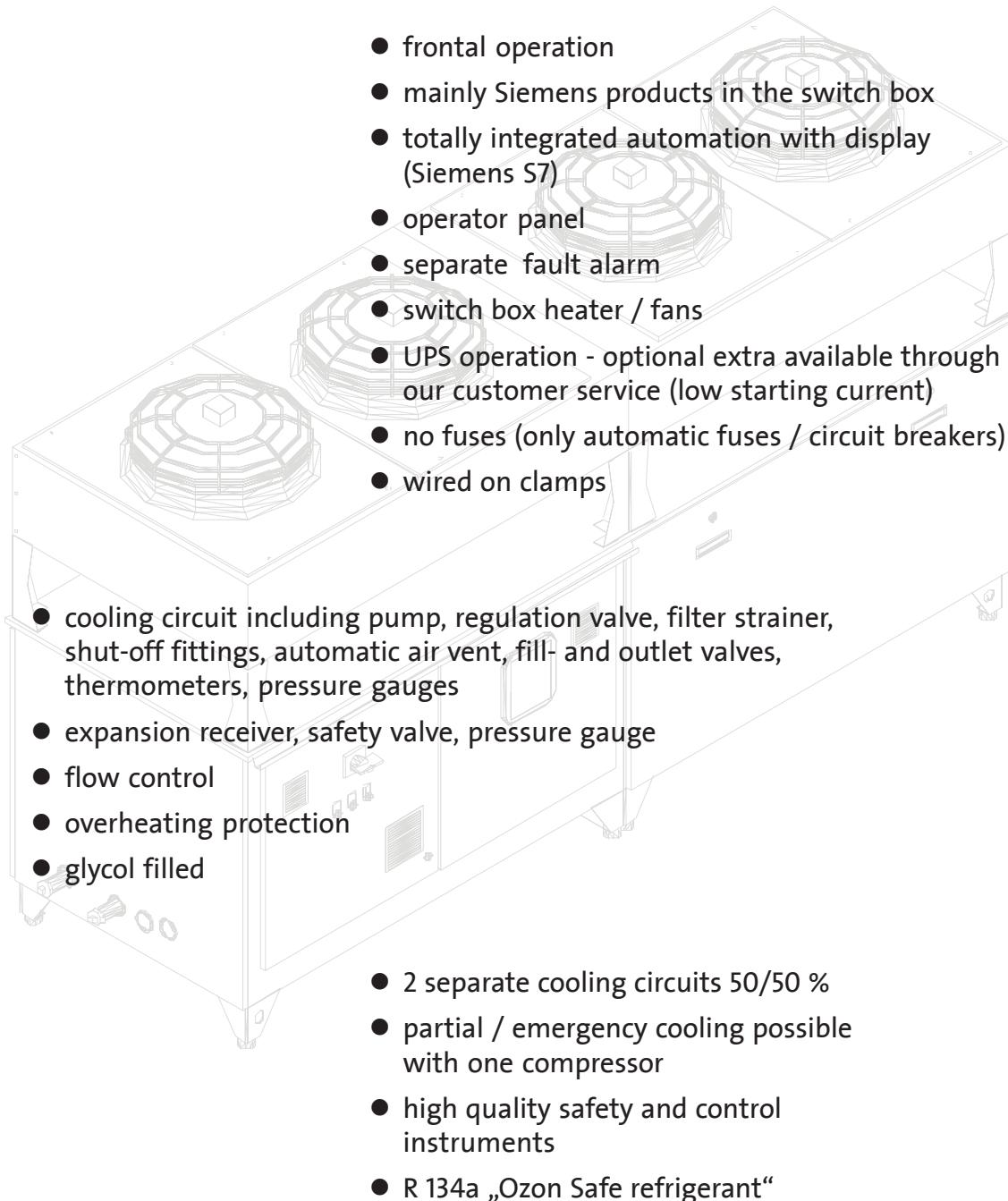
list of contents

page 5	description KKT waterchiller
page 6	nameplate KCC 215-L-U/S
page 7	technical data KCC 215-L-U/S
page 8	nameplate KCC 215-L-S
page 9	technical data KCC 215-L-U/S
page 10	dimensions KCC 215 (inch)
page 11	dimensions KCC 215 (mm)
page 12	key: cold water / glycol diagram
page 13	cold water / glycol diagram
page 14	key: refrigerant diagram / compact design
page 15	refrigerant diagram / compact design
page 16	waterchiller installation / I
page 17	waterchiller installation / II
page 18	IFP (manufacturer = Kutting)
page 19	IFP (manufacturer = Kutting)
page 20	overvolting protection
page 21	overview of waterchiller transfer station / remote control panel
page 22	transport

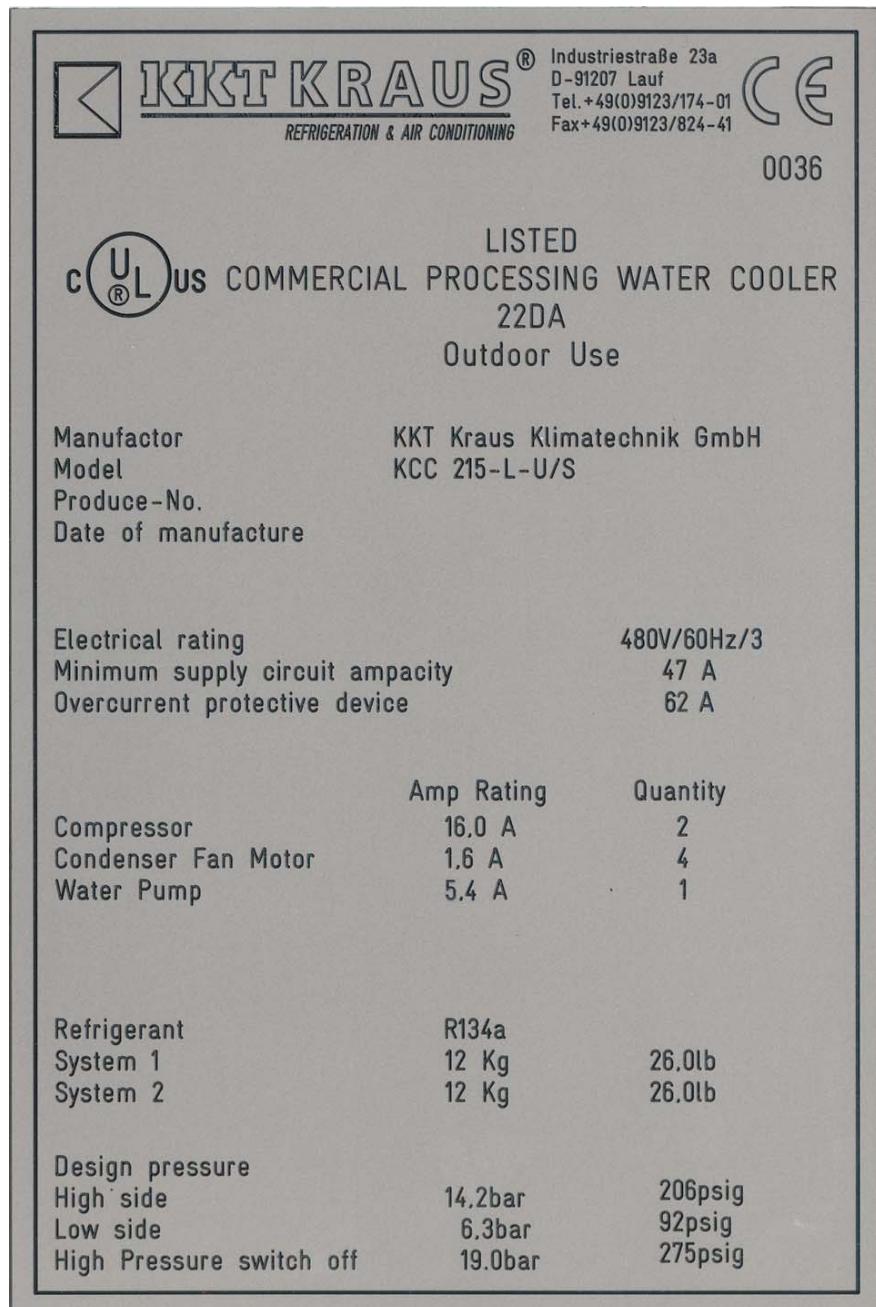
description KKT Waterchiller - Outdoor Version

The KKT Waterchillers are conceived, developed and produced as a compact system for the MAGNETOM AVANTO / ESPREE / TRIO. They are suitable for outdoor installations. Power supplies of 380V - 480V/50-60Hz. UL approved version is 480V/60Hz. Ambient temperatures up to 118.4° F [48°] C. Installation up to 6,562 feet [2,000 m] above sea level possible.

Produced and tested in accordance with Siemens Medical Engineering specifications.



nameplate KCC 215-L-U/S



technical data

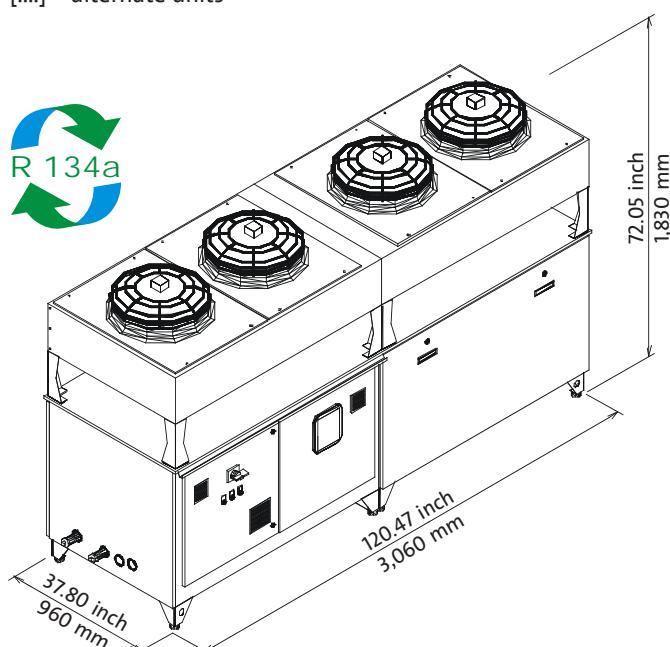
Waterchiller Typ KCC 215-L-U/S outdoor use

designed for MAGNETOM AVANTO / ESPREE / Trio, A Tim System



standard device	standard construction	note
nominal cooling capacity (Btu/hr [kW])	205,000	[60.0]
refrigeration medium	R 134a	
quantity of compressors	2	
compressor capacity (HP [kW])	18.2	[13.4] Fabr.: DWM Type: ZR 16
volume of condenser airflow (m ³ /s [m ³ /h])	10.0	[36,000]
number of axial fans (piece)	4	
condenser fan motor (HP [kW])	1.54	[1.15]
max. ambient air temperature (°F [°C])	+118	+48
min. ambient air temperature (°F [°C])	-4.0	[-20]
cooling medium	PCW/AFN	AFN = 38% ethylene glycol rate
min. cooling medium out (°F [°C])	+66.2	[+19.0]
max. cooling medium out (°F [°C])	+71.6	[+22.0]
temperature stability (K)	±0.8	
min. volume of cooling medium (gpm [l/min])	34.34	[130.0]
ext. pump pressure (psig [bar])	58.0	[4.0] Fabr.: Speck Type: IN-V10-50
pump power (HP [kW])	4.0	[3.0]
noise level (dB[A])	61	abt. 32.8 ft [10m] distance/ 118°F [48°C]
	55	abt. 32.8 ft [10m] distance/ 90°F [32°C]
	50	abt. 32.8 ft [10m] distance/ 70°F [21°C]
power supply (V/Ph/Hz)	480/3/60	tolerance -14/+10%V/±1 Hz
control voltage (VDc)	24	
full load amps (A)	58.5	
form of protection	IP 54	
internal piping volume (gals. [l])	4.49	[17.0]
plumbing	2"	
shipping weight (lbs [kg])	3,527 [1,600]	
operation weight (lbs [kg])	2,425 [1,100]	

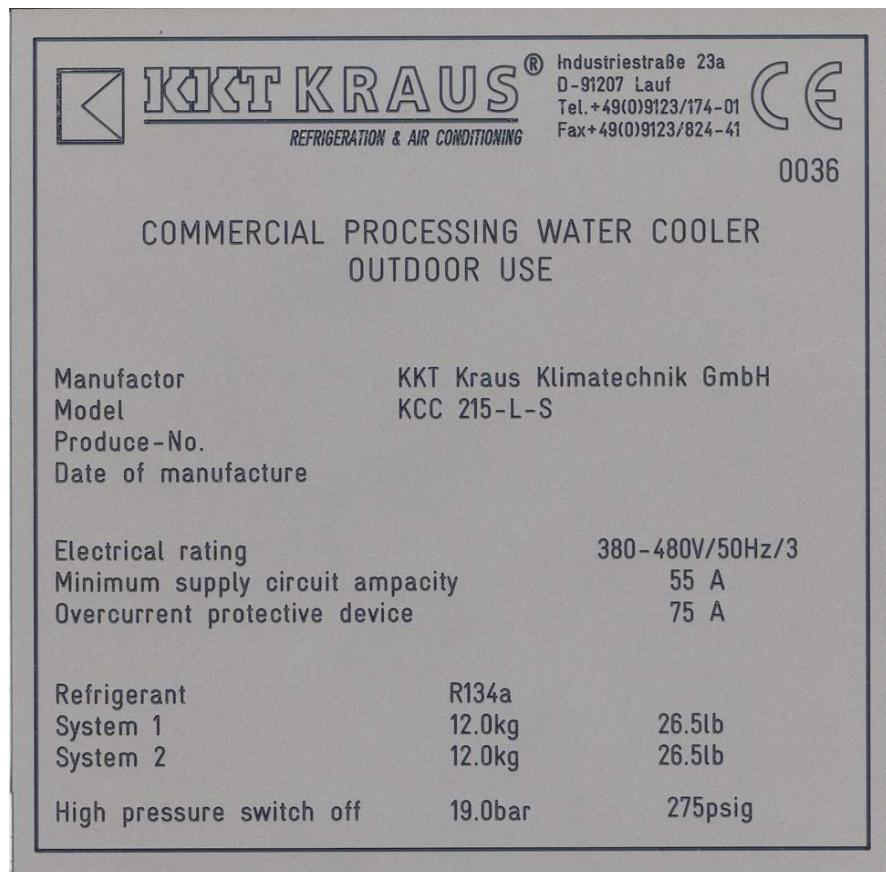
[....] = alternate units



Warning:
**The 38% glycol rate depends
not on the local ambient
temperature !!!**

**Do not use propylene glycol or
automotive antifreeze.**

nameplate KCC 215-L-S



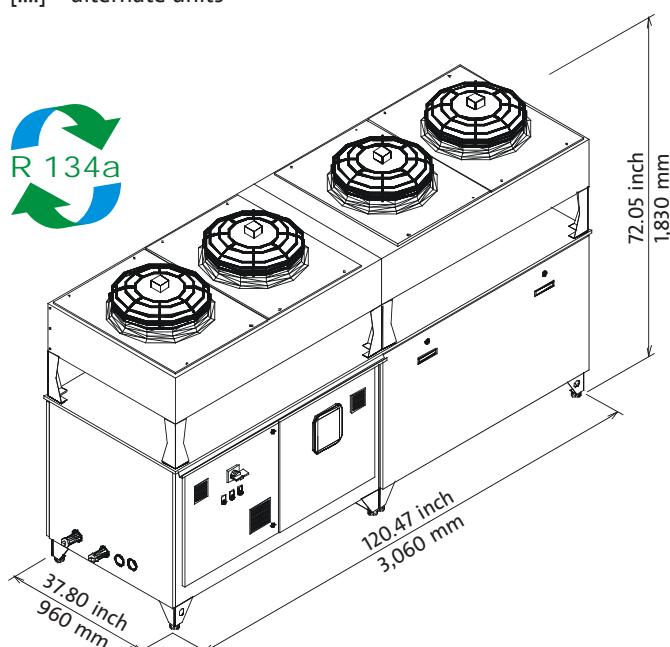
technical data

Waterchiller Typ KCC 215-L-S outdoor use
designed for MAGNETOM AVANTO / ESPREE / Trio, A Tim System



standard device	standard construction	note
nominal cooling capacity (Btu/hr [kW])	205,000	[60.0]
refrigeration medium	R 134a	
quantity of compressors	2	
compressor capacity (HP [kW])	21.7	[16.0] Fabr.: DWM Type: ZR 19
volume of condenser airflow (m ³ /s [m ³ /h])	10.0	[36,000]
number of axial fans (piece)	4	
condenser fan motor (HP [kW])	1.54	[1.15]
max. ambient air temperature (°F [°C])	+118	+48
min. ambient air temperature (°F [°C])	-4.0	[-20]
cooling medium	PCW/AFN	AFN = 38% ethylene glycol rate
min. cooling medium out (°F [°C])	+66.2	[+19.0]
max. cooling medium out (°F [°C])	+71.6	[+22.0]
temperature stability (K)	±0.8	
min. volume of cooling medium (gpm [l/min])	34.34	[130.0]
ext. pump pressure (psig [bar])	58.0	[4.0] Fabr.: Speck Type: IN-V10-70
pump power (HP [kW])	4.0	[3.0]
noise level (dB[A])	61	abt. 32.8 ft [10m] distance/ 118°F [48°C]
	55	abt. 32.8 ft [10m] distance/ 90°F [32°C]
	50	abt. 32.8 ft [10m] distance/ 70°F [21°C]
power supply (V/Ph/Hz)	380-480/3/50	tolerance -14/+10%V/±1 Hz
control voltage (VDc)	24	
full load amps (A)	55.0	
form of protection	IP 54	
internal piping volume (gals. [l])	4.49	[17.0]
plumbing	2"	
shipping weight (lbs [kg])	3,638 [1,650]	
operation weight (lbs [kg])	2,535 [1,150]	

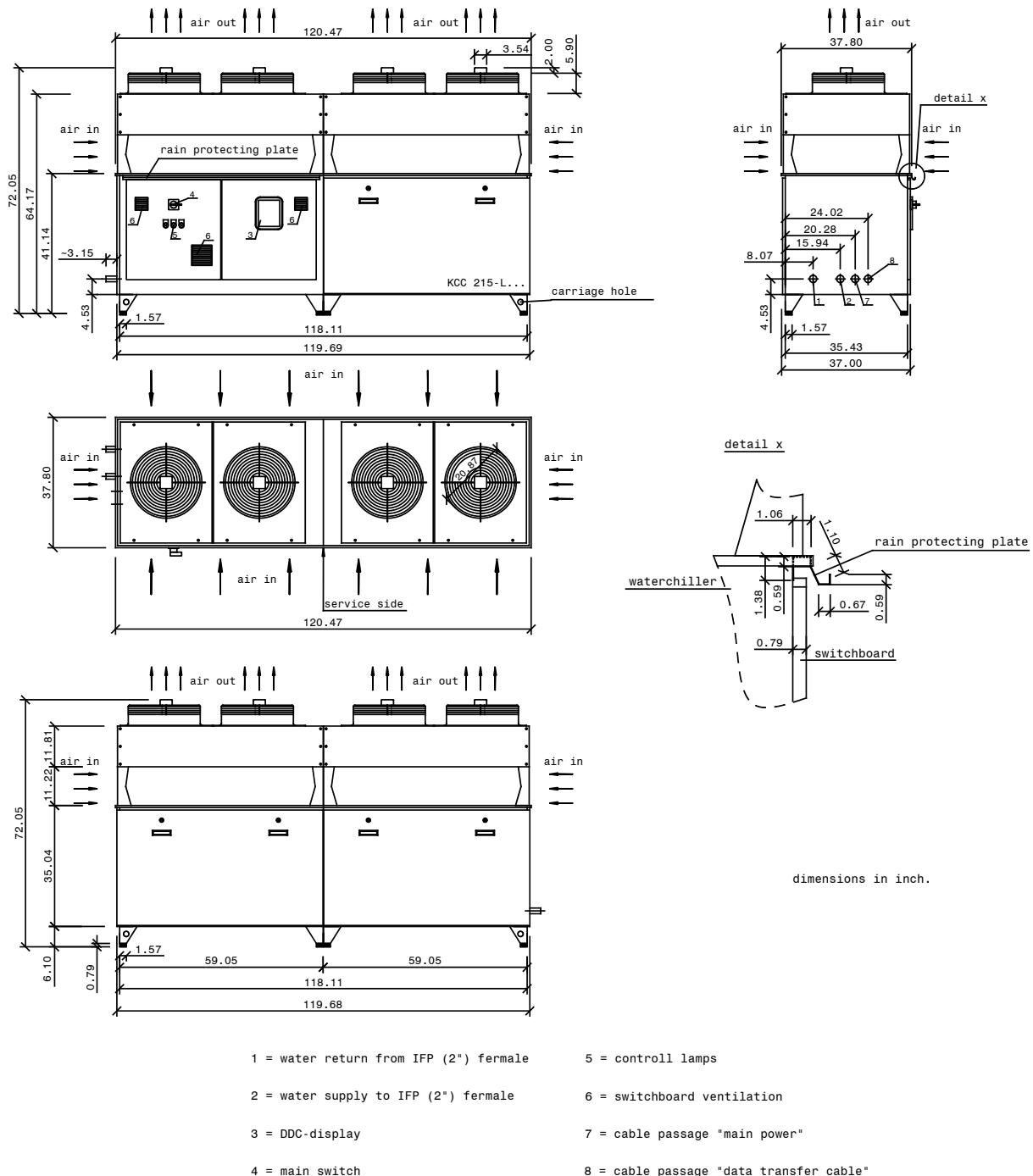
[....] = alternate units



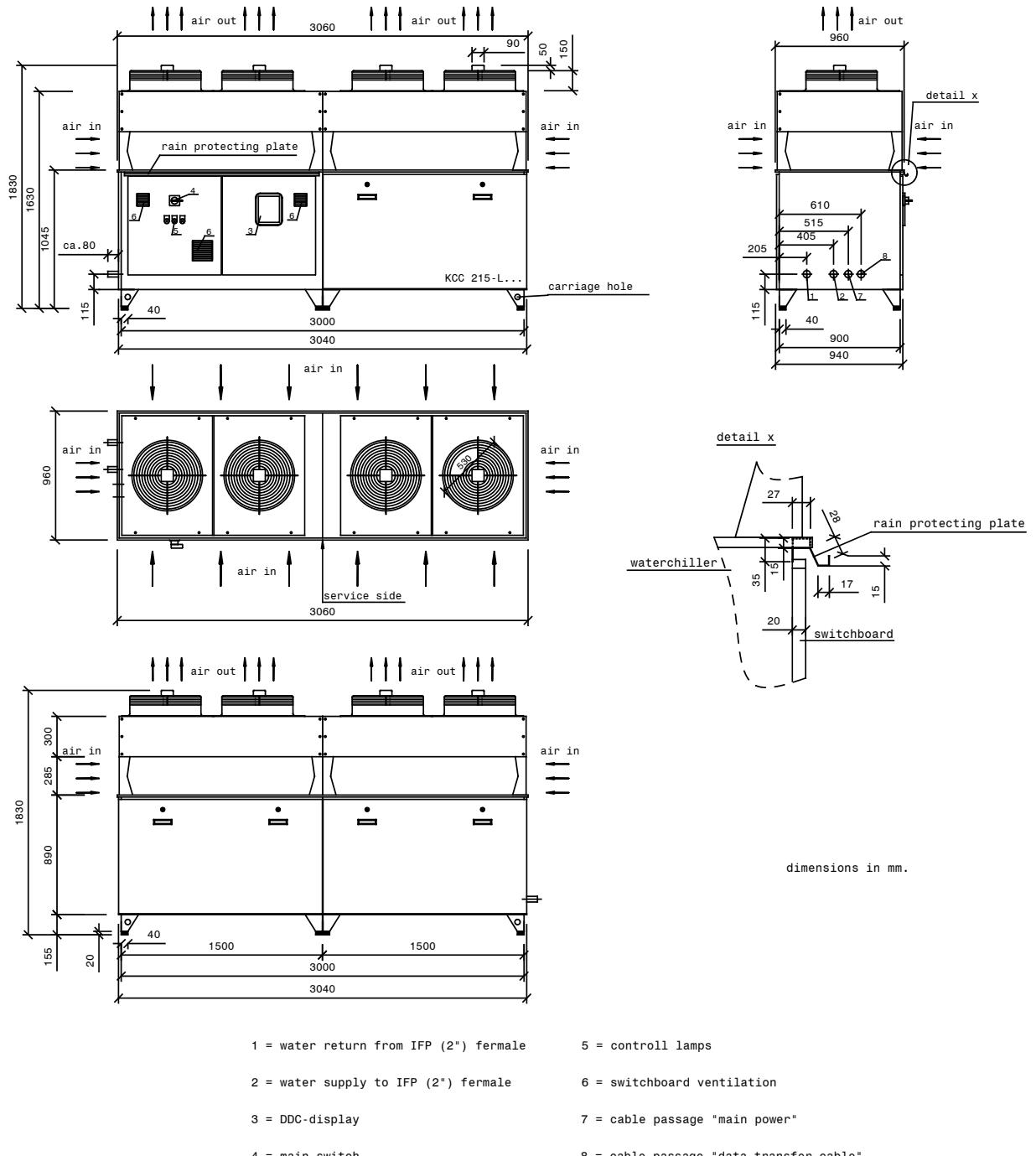
Warning:
The 38% glycol rate depends not on the local ambient temperature !!!

Do not use propylene glycol or automotive antifreeze.

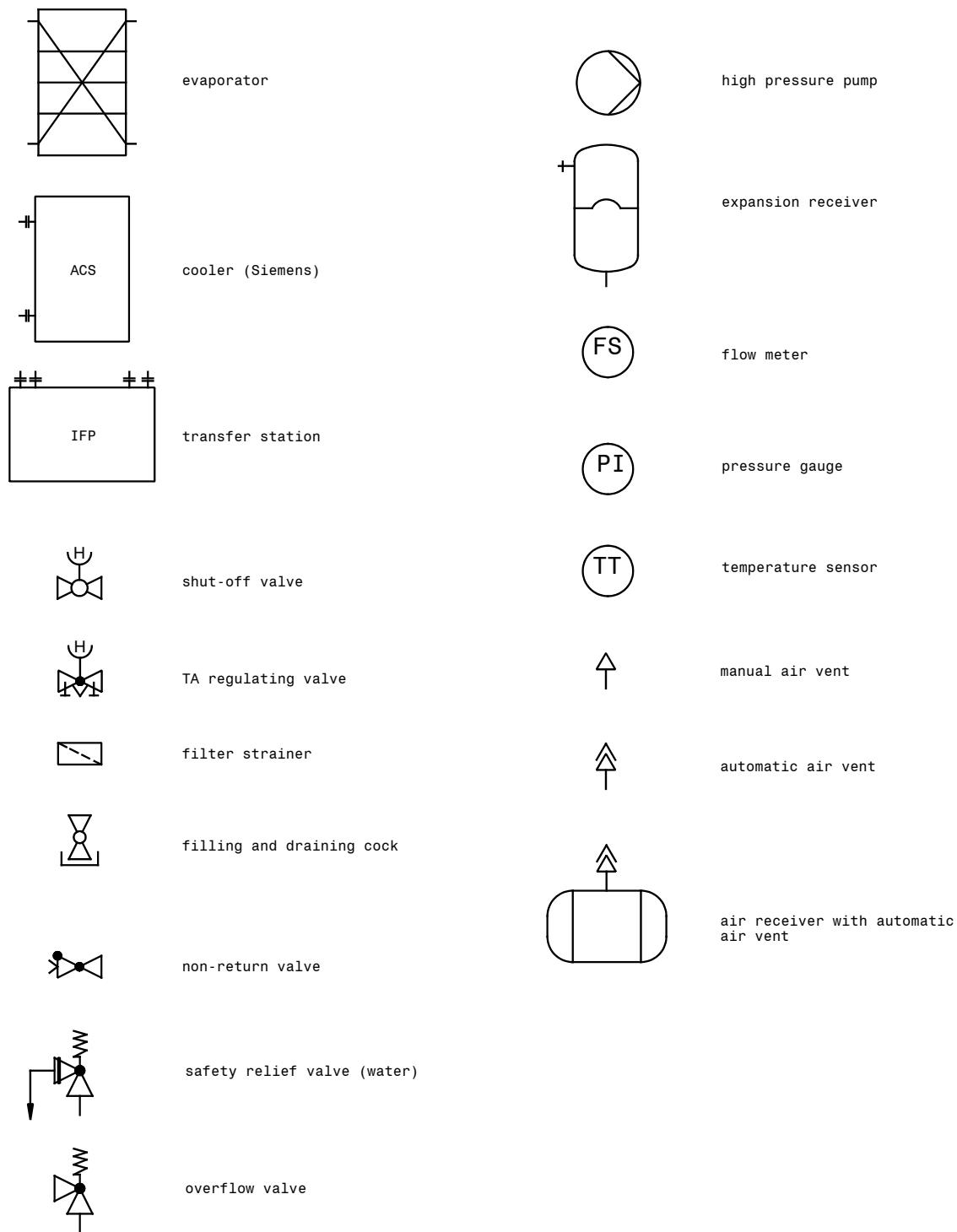
dimensions KCC 215 (inch)



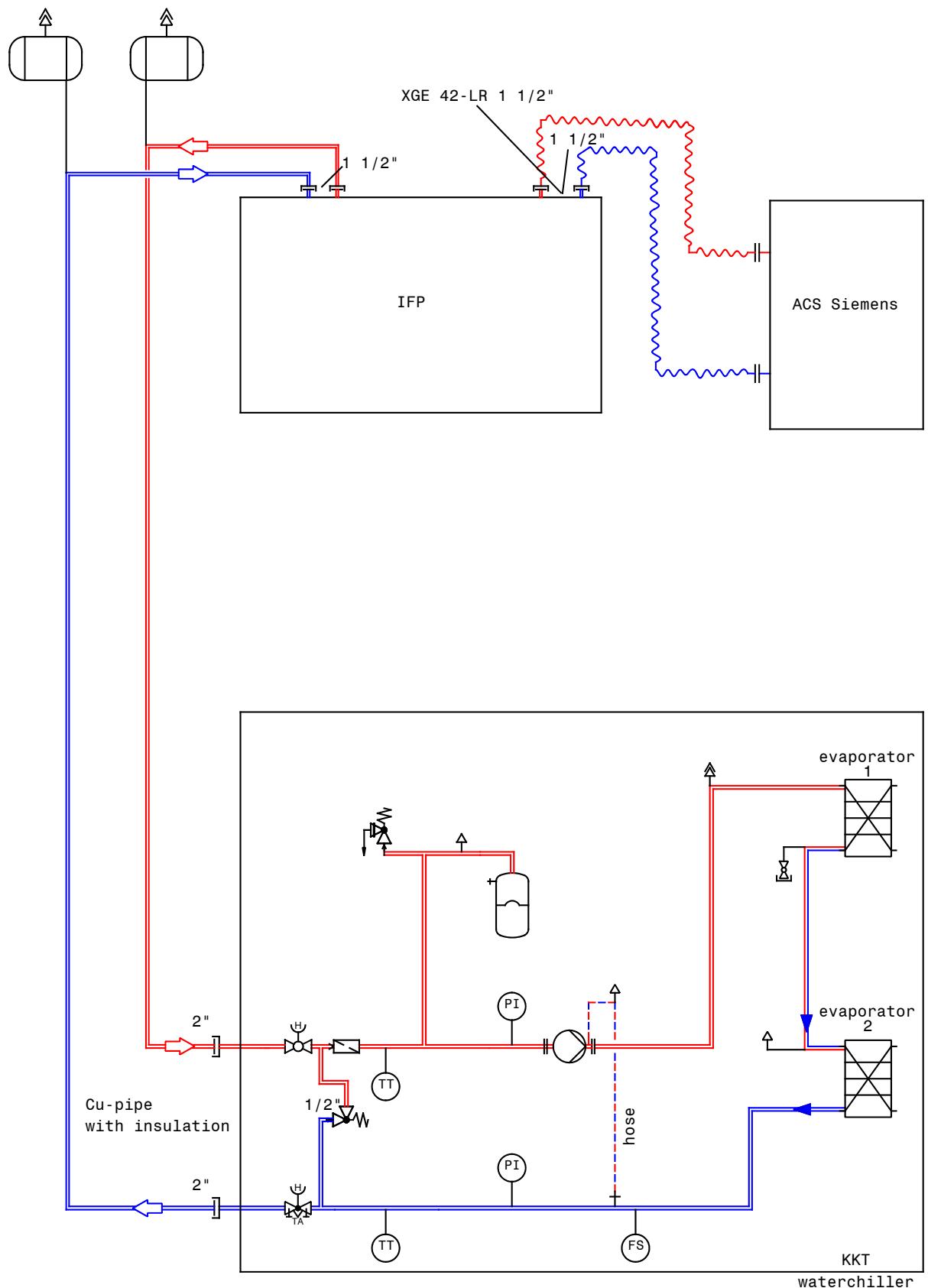
dimensions KCC 215 (mm)



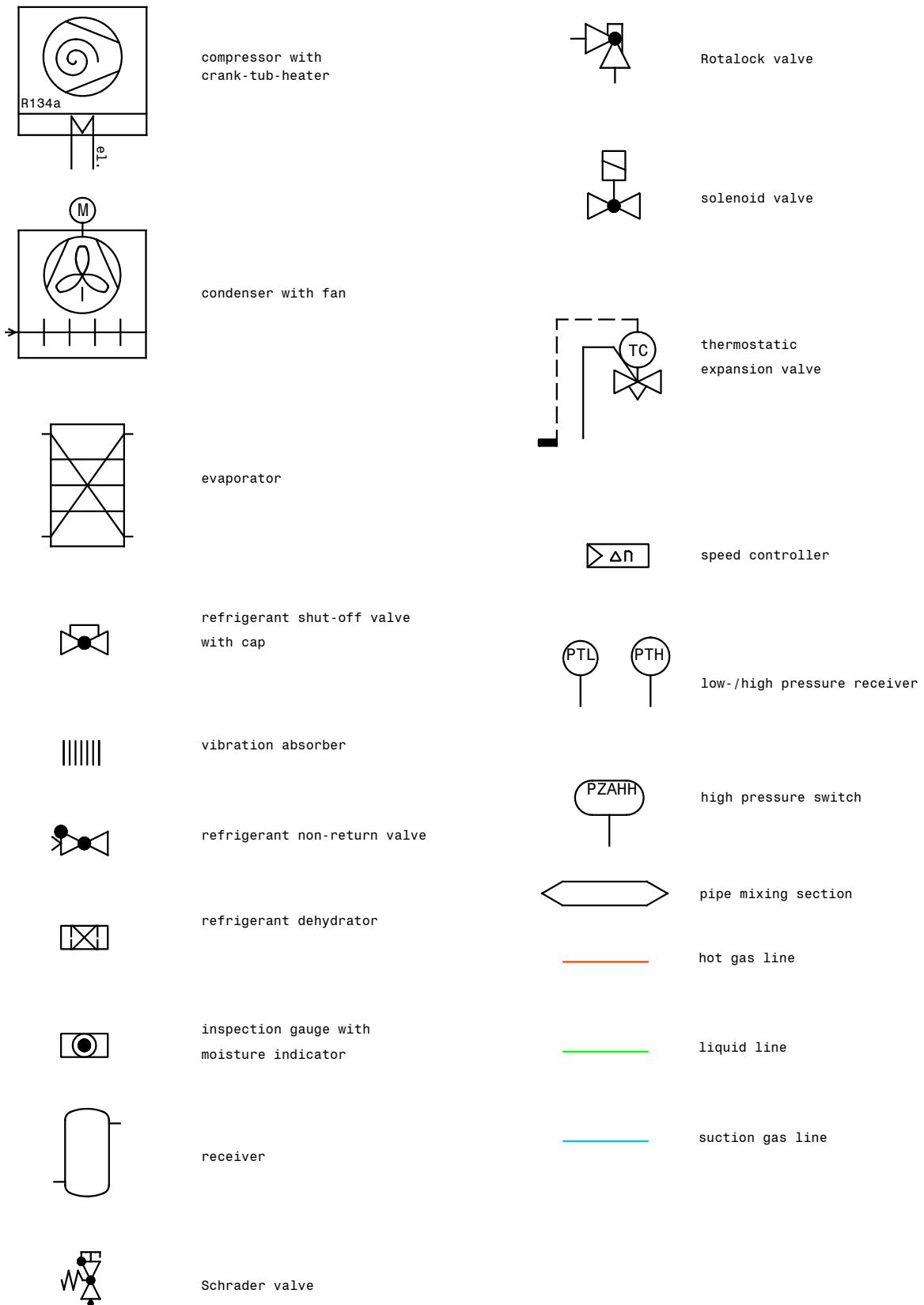
key: cold water- / glycol diagram



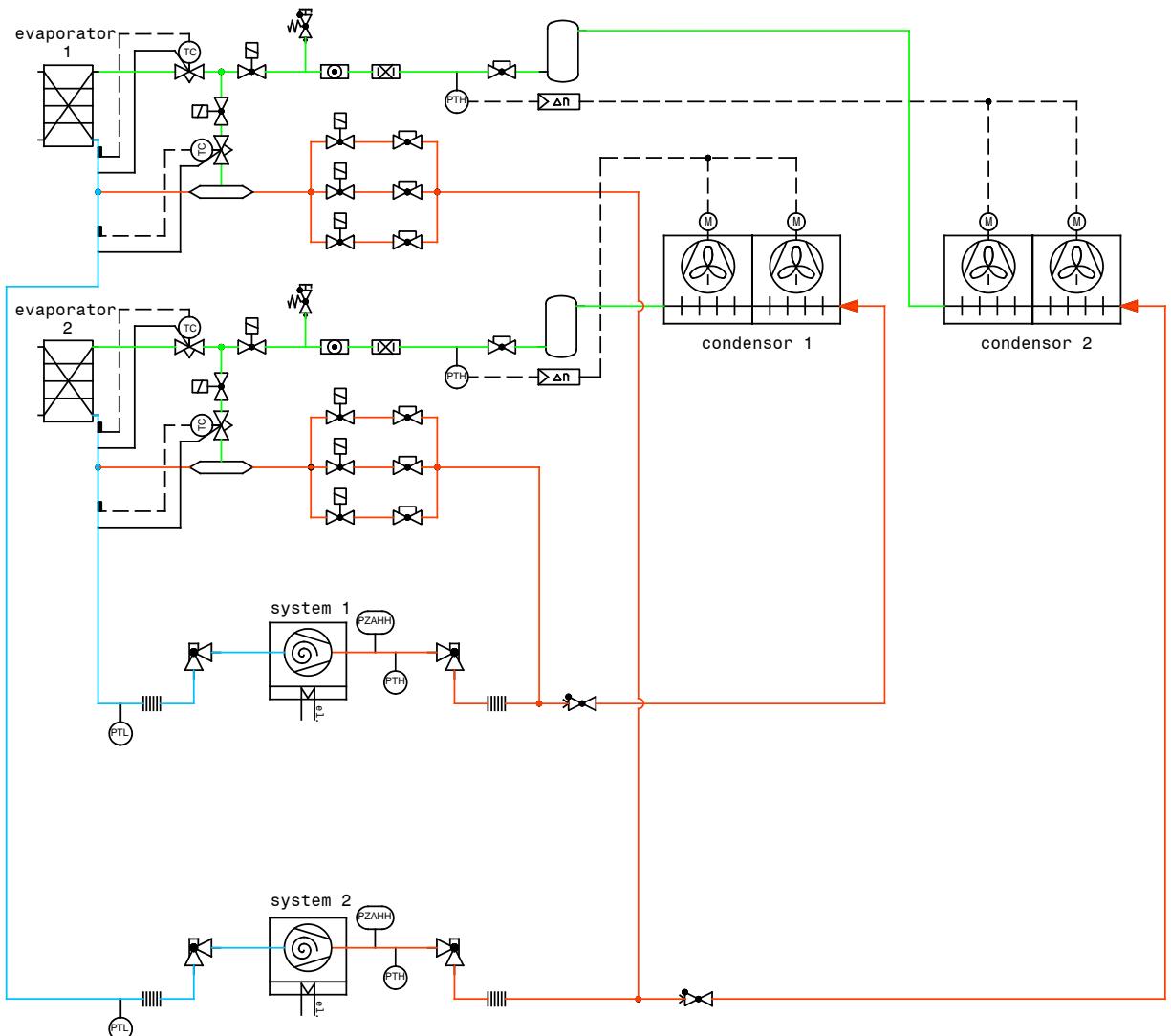
cold water- / glycol diagram



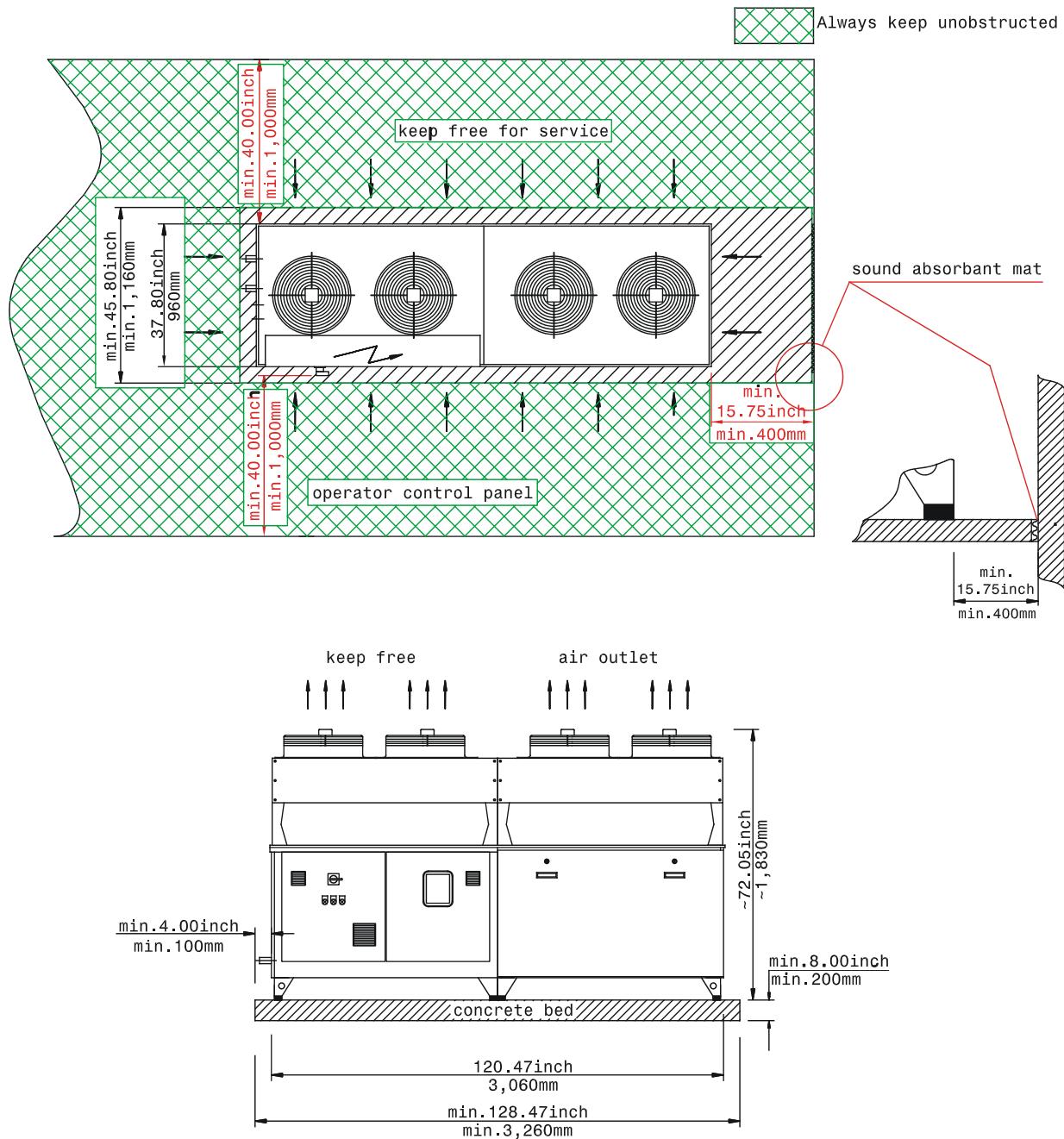
key: refrigerant diagram



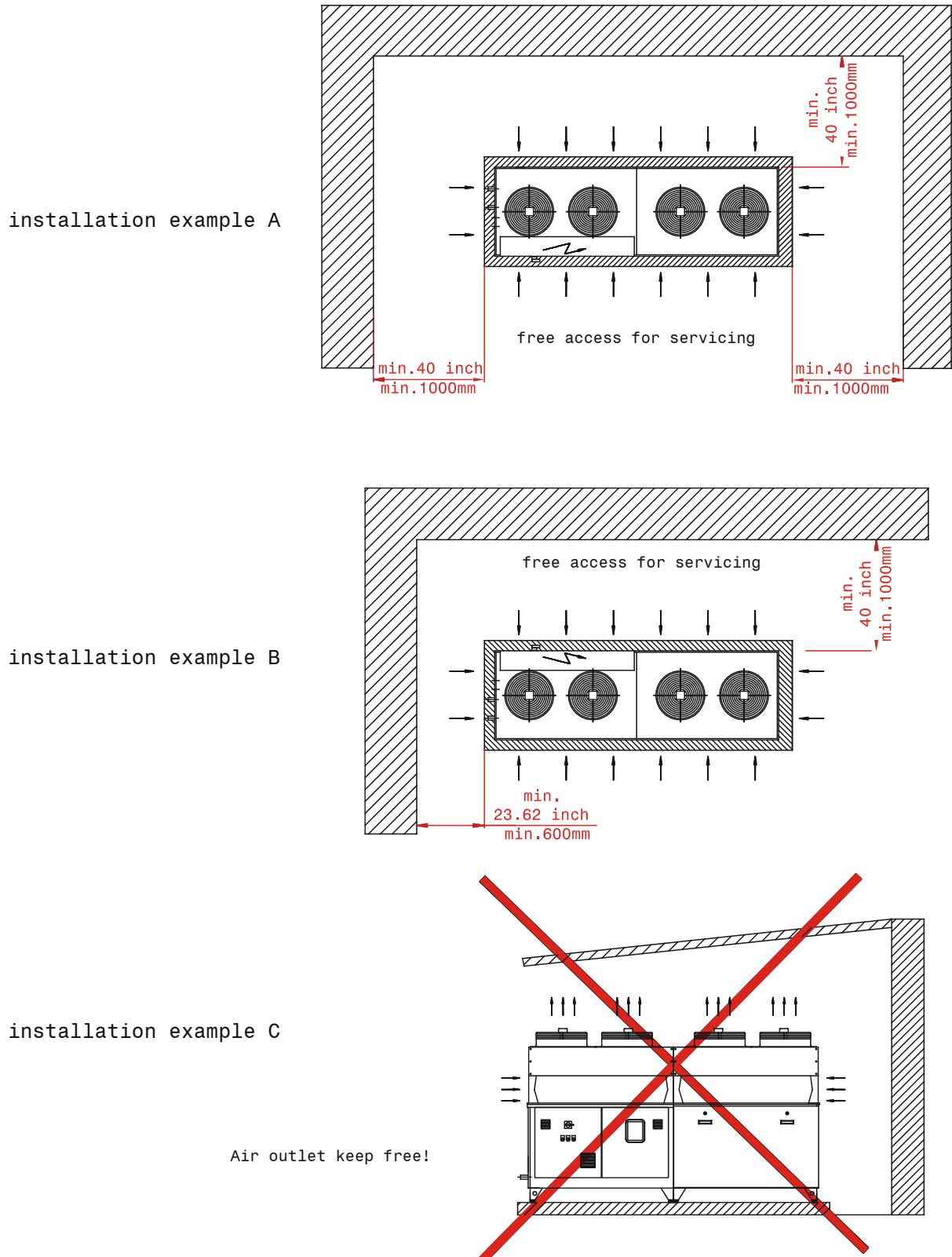
refrigerant diagram



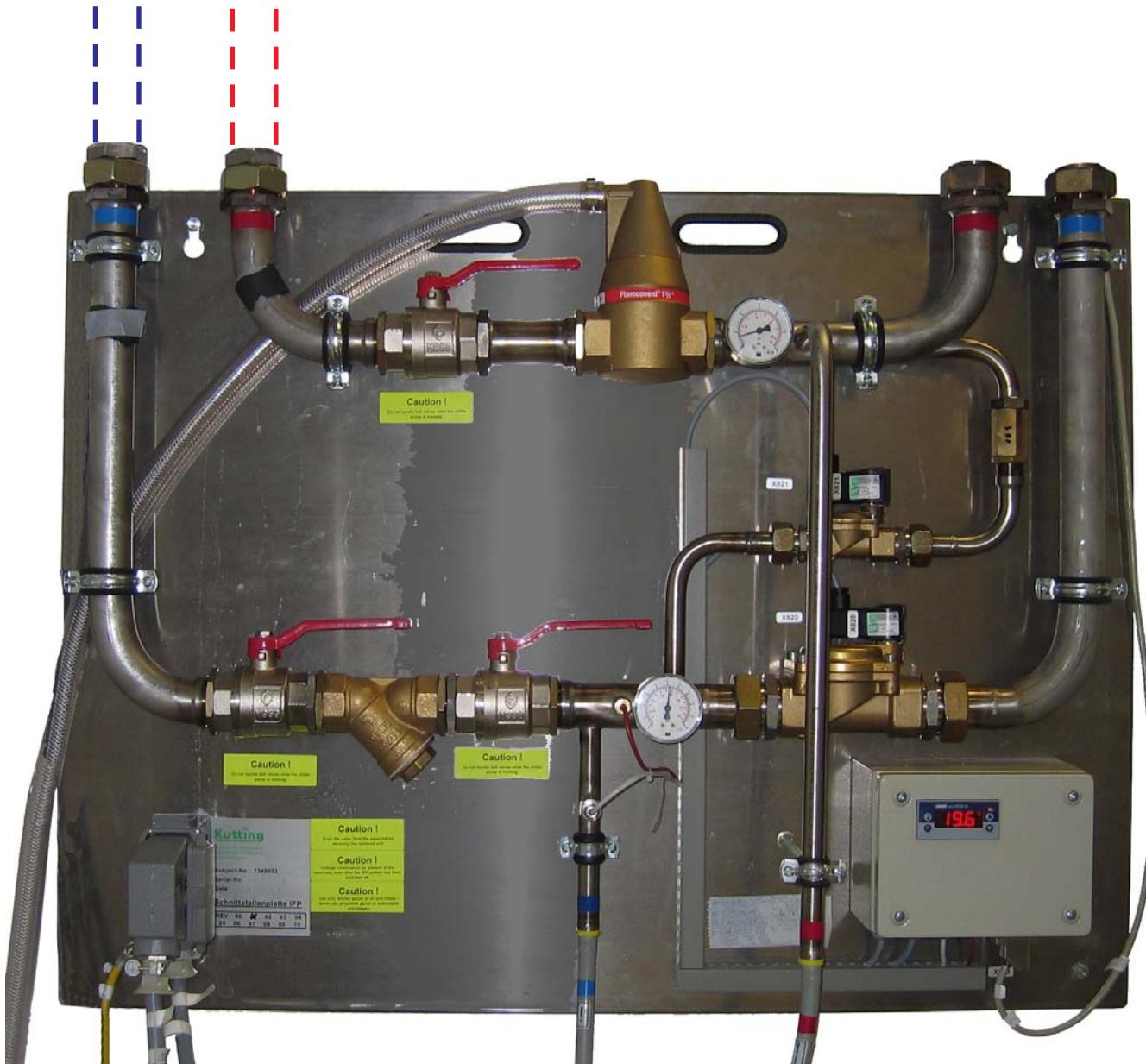
waterchiller installation / I



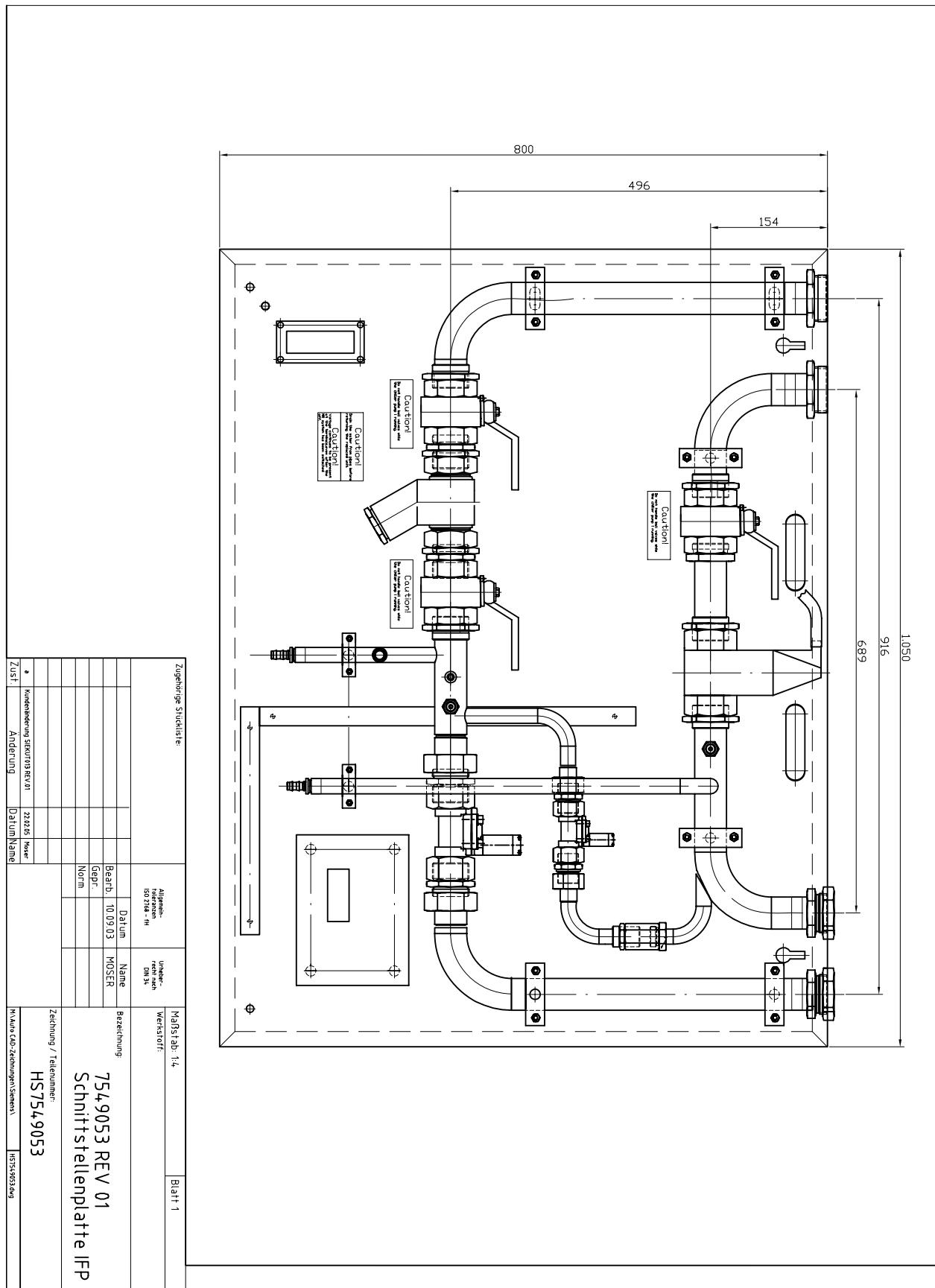
waterchiller installation / II



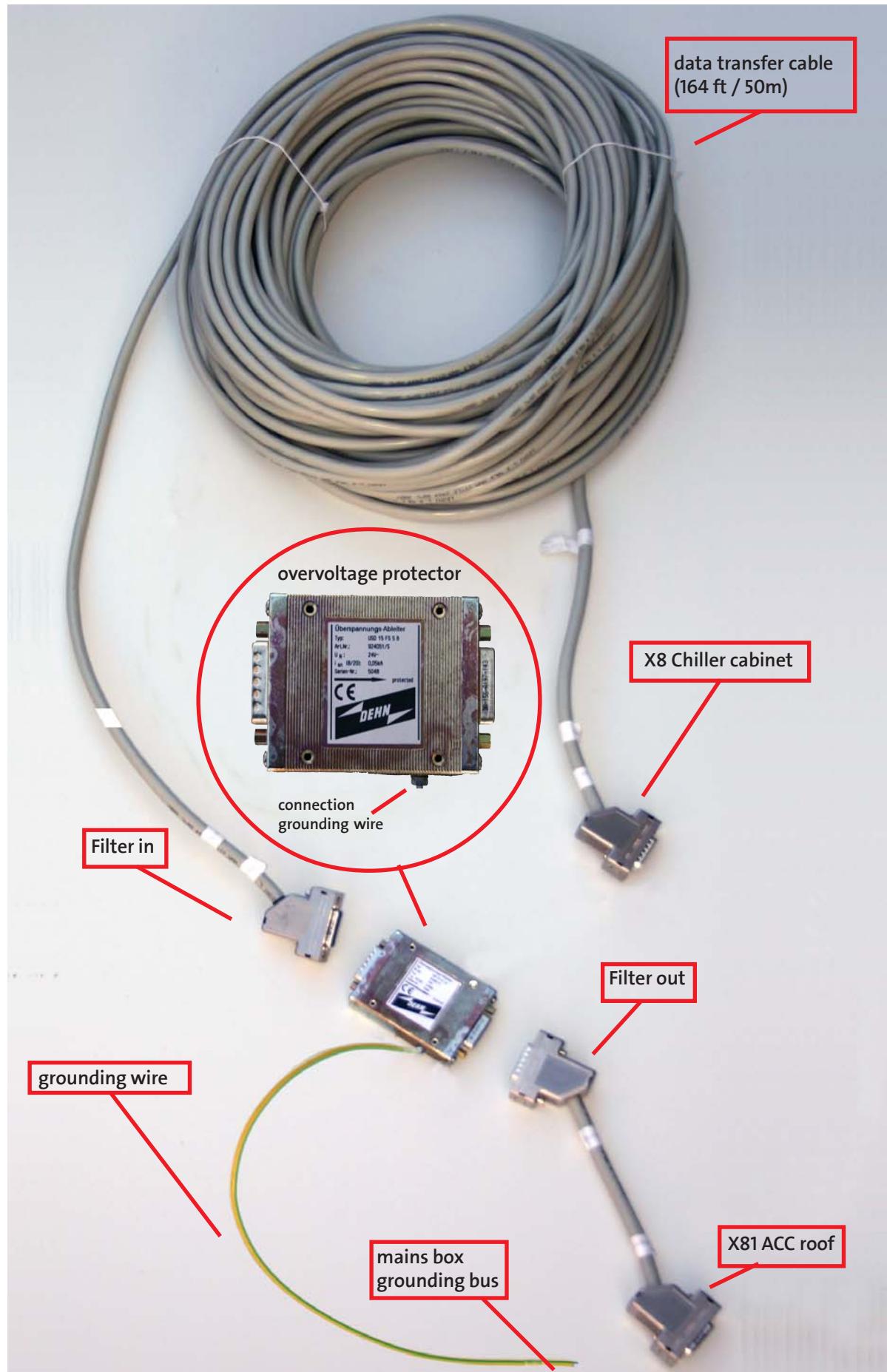
connector fittings
located inside KKT-Chiller



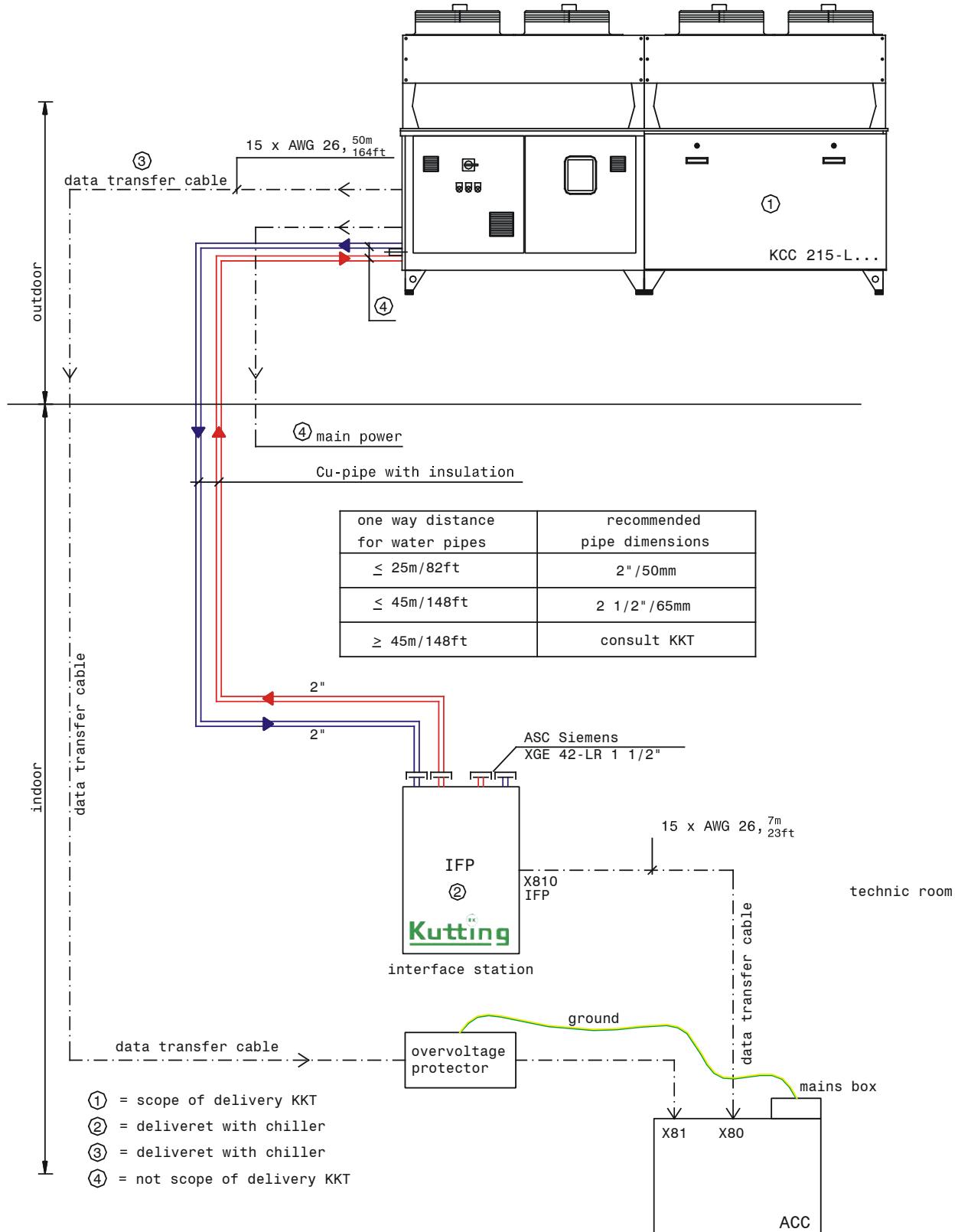
for further information contact Siemens Customer Support



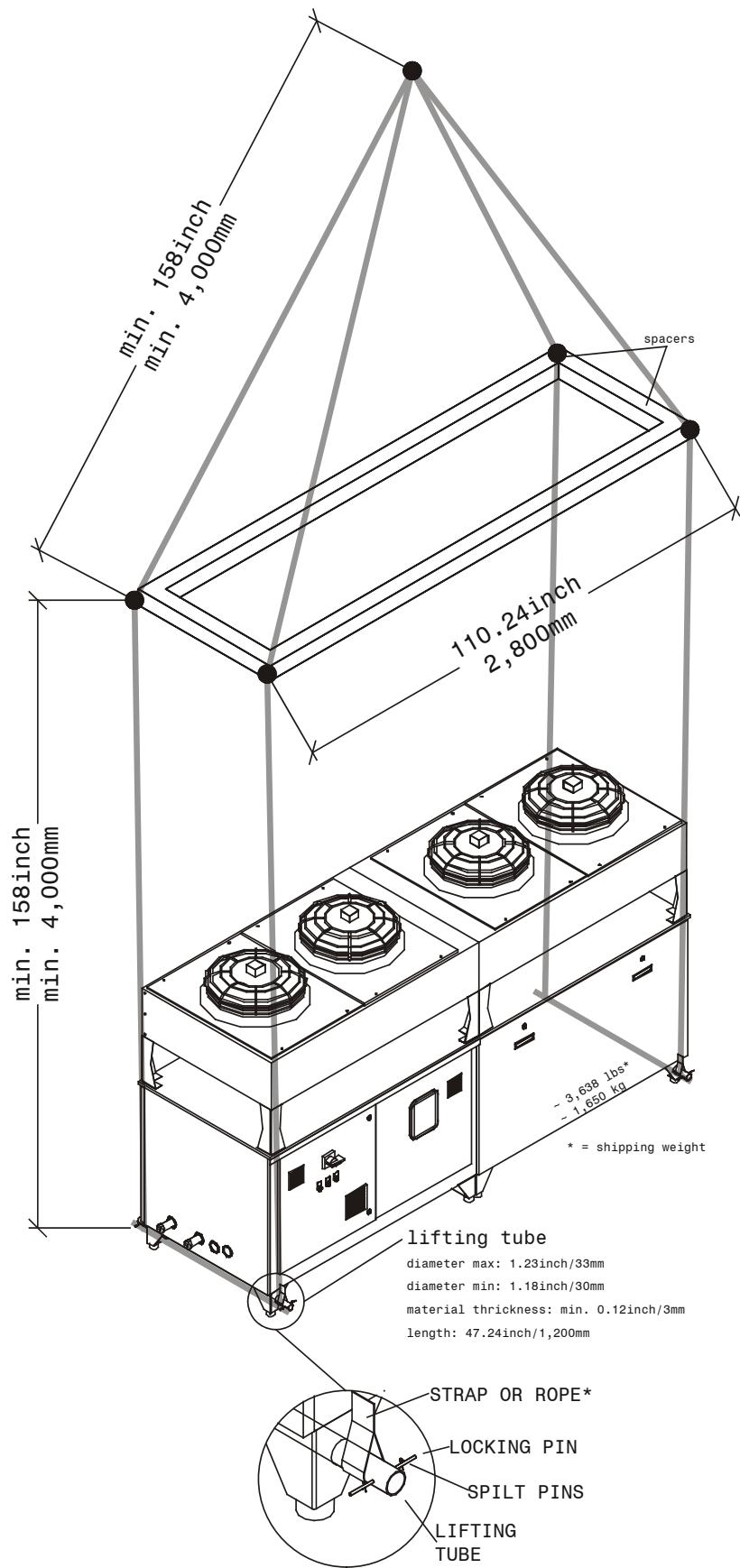
overvoltage protection



overview of waterchiller transfer station / remote control panel



transport



*Attention: don't use metal rope !!

**Technical development
may cause changes of configuration**

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