



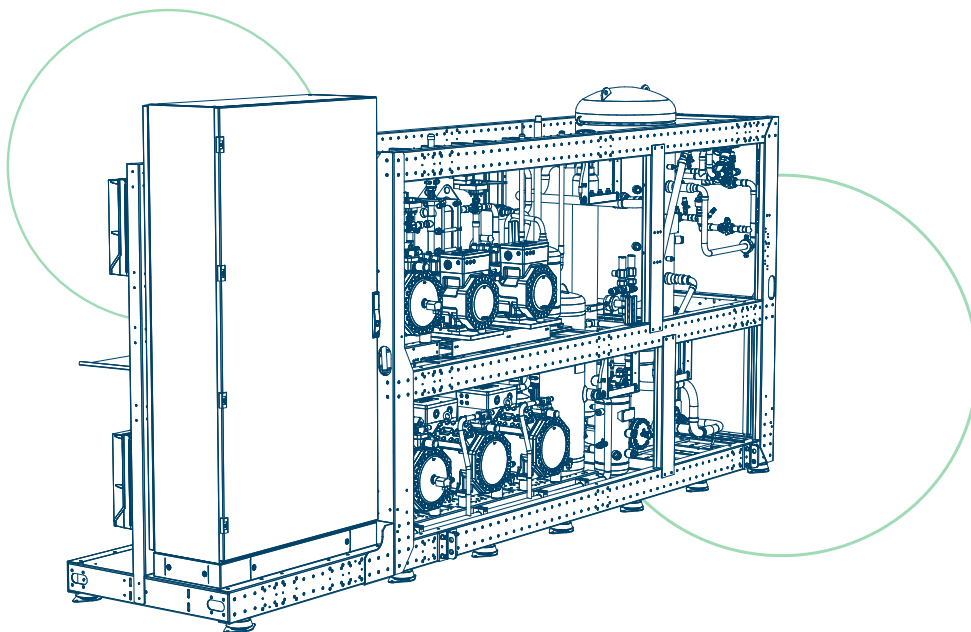
SUSTAINABLE COLD SOLUTIONS

Transcritical CO₂ Booster Rack



We know the art of achieving
a perfect temperature

BEIJER REF



The MWL by SCM Frigo is an optimized lean line of CO₂ units available in MT-only or MT/LT booster configurations. Designed for simplicity and ease of use, it provides convenient one-sided component access ideal for wall-mounted installations. Offered in indoor or plug'n cool versions, it includes an integrated gas cooler option, delivering a streamlined and efficient refrigeration solution.

MAIN ADVANTAGES



EFFICIENCY UP IN ALL CLIMATE THANKS TO EJECTOR



ENHANCED CAPACITY



COMPACT DESIGN



MINIMAL MAINTENANCE



ENERGY EFFICIENCY

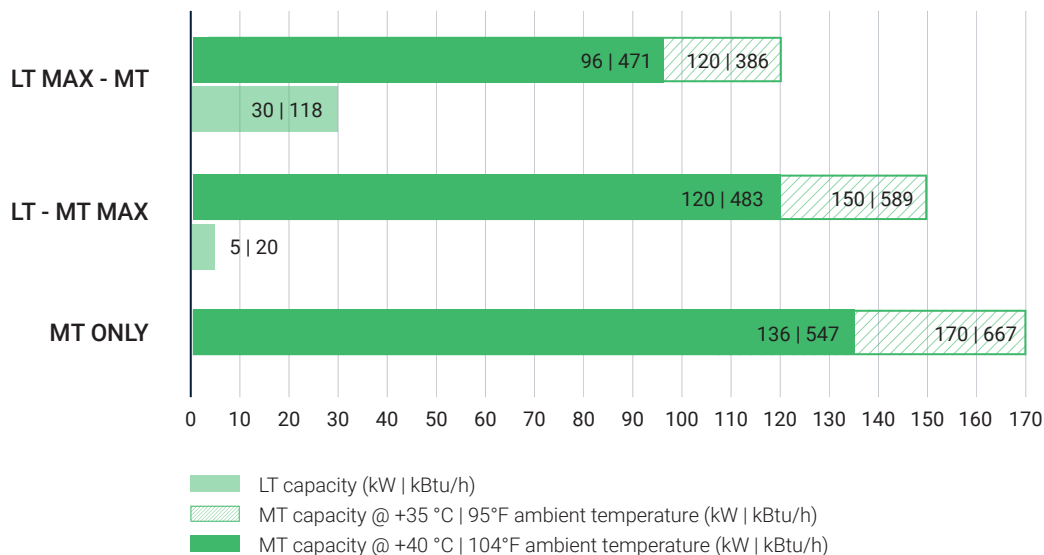


SCALABLE AND VERSATILE



LOW NOISE

Cooling Capacity



Standard Accessories

- Frequency inverter on MT lead compressor
- Maintenance-free high-efficiency oil separator
- Oil reservoir with minimum level switch
- Electronic oil level regulator for all compressors
- Replaceable oil filter strainer
- Shut-off valves on the compressors
- Common discharge manifold for safety valves (PRV)
- Dual PRV on 3-way changeover valve
- Safety switches with lock
- Full factory testing and parameter setting

- Electronic controller
- High pressure and Medium pressure valves
- Dedicated UPS for High/Flashgas Pressure Valves
- Liquid low level electronic switch
- Receiver with sight glass
- Liquid-flash internal heat exchanger
- Liquid injection
- Liquid filter dryer
- Design Pressure: 120 / 60 / 52 / 30 bar

Accessories on Request

- Frequency inverter on LT lead compressor
- Frequency inverter on IT lead compressor
- Varistep on MT lead compressor
- Varistep on IT lead compressor
- AC load (flooded evaporator)
- LSPM motors
- Back-up HP/MP valves
- Back-up controller
- Controller Carel, Wurm, RDM, Danfoss
- Electrical cabinet remote (dismountable with extra cable)
- Energy meter
- LTGC with 3-way bypass valve
- Gas cooler with 3-way bypass valve
- Electrical cabinet supply power to gas cooler including fuses
- High level liquid sensor
- Liquid level control (4-20mA)
- Larger liquid receiver volumes available
- Outdoor enclosure (reach in)
- Outdoor enclosure with integrated gas cooler (PNC)
- Low noise enclosure
- Two stages Heat Recovery (Tap Water & Heating)
- Mechanical subcooler
- Ejector HP/LE and LP
- LP ejector
- Suction filter strainer MT installed
- Suction filter strainer LT installed
- MT suction accumulator
- LT suction accumulator
- Other max. design pressures available: 130 / 80 / 60 / 60 bar

Technical data Lean Booster ^(a)

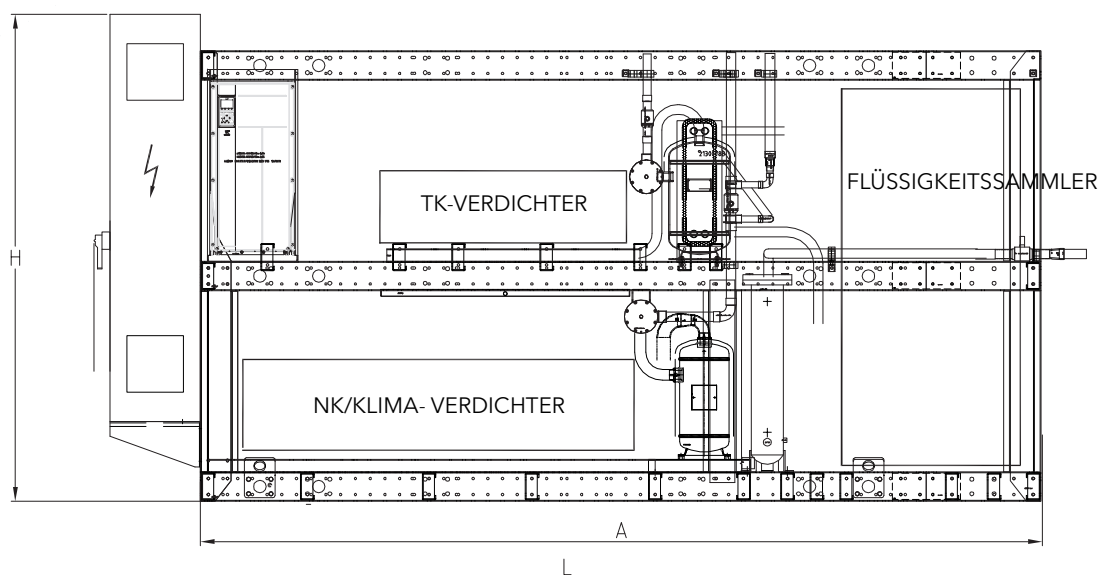
MODEL		MWL MTDX	MWL MTDX + BT
Max. Number of Compressors MT(IT) / LT ^(a)	n°	4 (2)	4 (1) / 3
MT Max. Cooling Capacity MT	kW	170	120
	kBtu/h	665	470
LT Max. Cooling Capacity LT	kW	-	50
	kBtu/h	-	195
A/C Max. Cooling Load	kW	30	30
	kBtu/h	120	120
Extra DX suction groups ^(b)		No	No
Length - min/max	mm	3210 - 4310	3210 - 4310
	inch	125 - 1700	125 - 1700
Width - min/max	mm	900	900
	inch	35	35
Height - min/max	mm	1950 - 2050	1950 - 2050
	inch	75 - 80	75 - 80
Liquid receiver volume	L	70 - 124 - 173 - 173AC - 240AC - 281 - 492	
	ft ³	2.5 - 4 - 6 - 6AC - 8.5 - 10 - 17	
Frequency Inverter range MT	Hz	30-70	
Frequency Inverter range LT (option)	Hz	30-70	
Electrical supply compressors / mainline	V/ph/ Hz	400/3+N/50 - 460/3+N/60	

^(a) The number of IT compressors will change if LE Ejector is installed

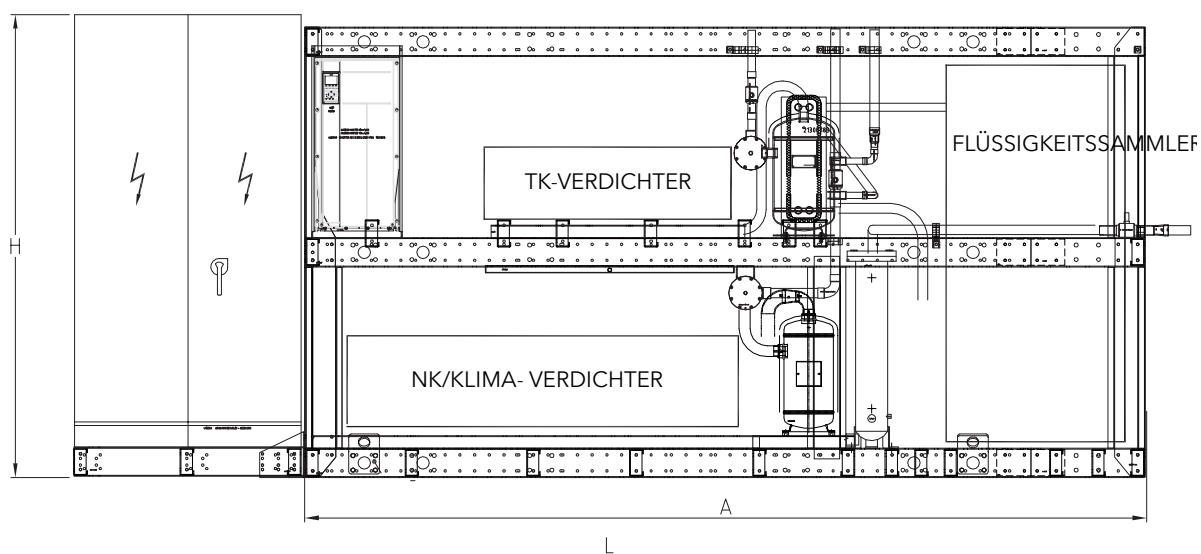
^(b) Up to a maximum of 2 MT suction groups + 2 LT suction groups together with A/C

Dimensional Data

Layout A

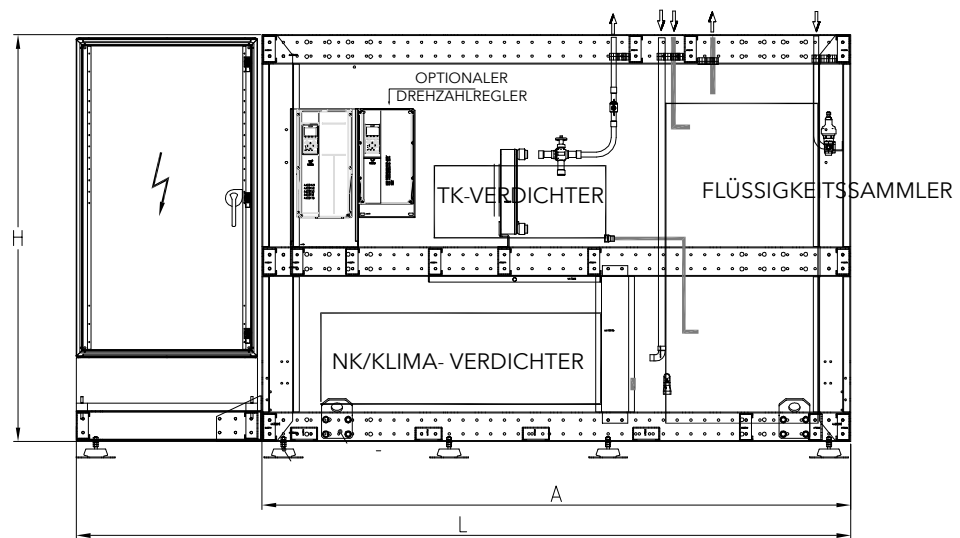


Layout B



Dimensional Data

Layout C



NOTES

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