



BOOSTER

SUSTAINABLE COLD SOLUTIONS

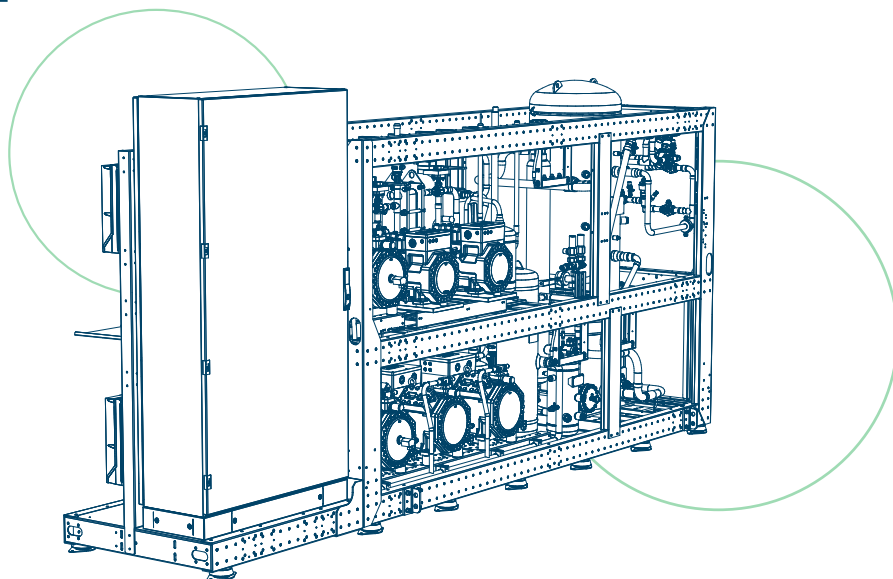
Transcritical CO₂ Booster Rack



We know the art of achieving
a perfect temperature

BEIJER REF

LEAN BOOSTER



The lean line offers a range of CO₂ units configured as MT only or Booster MT/LT, with the following features:

- Convenient one-side access to components, allowing for wall-mounted installation.
- Available in indoor, reach-in and «plug'n cool» versions with an integrated gas cooler.

MAIN ADVANTAGES



EFFICIENCY UP IN ALL
CLIMATE THANKS TO
EJECTOR



ENHANCED CAPACITY



COMPACT DESIGN



MINIMAL
MAINTENANCE



ENERGY EFFICIENCY

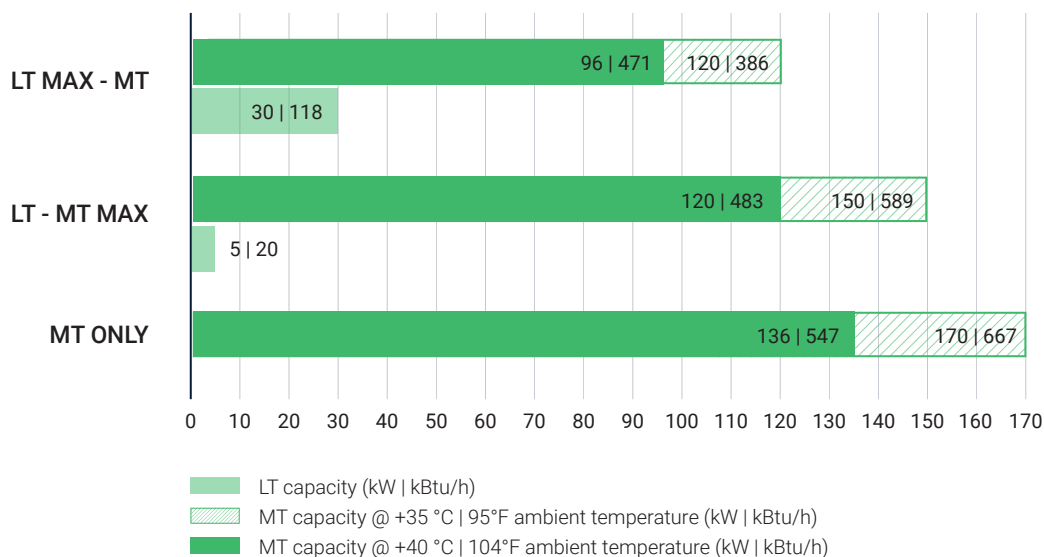


SCALABLE
AND VERSATILE



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 (demountable 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

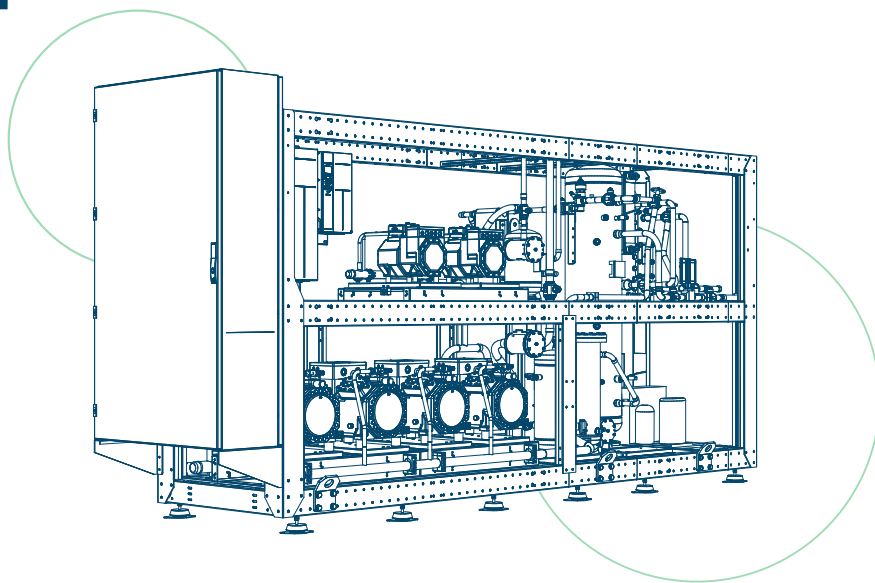
Technical data Lean Booster ^(a)

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

BOOSTER



The MWT line by SCM Frigo, initially tailored for supermarket applications, delivers exceptional flexibility with extensive configuration options available in MT or LT only or MT/LT booster configurations. Now also ideal for light-industrial use, the Booster series offers tailored solutions through various optional features, catering precisely to each project's requirements.

MAIN ADVANTAGES



HIGH EFFICIENCY IN
ALL CLIMATES



EJECTOR FOR
PERFORMANCE
IMPROVEMENT



HIGH
CUSTOMIZATION



HIGH COOLING
CAPACITY



RELIABLE
PERFORMANCE

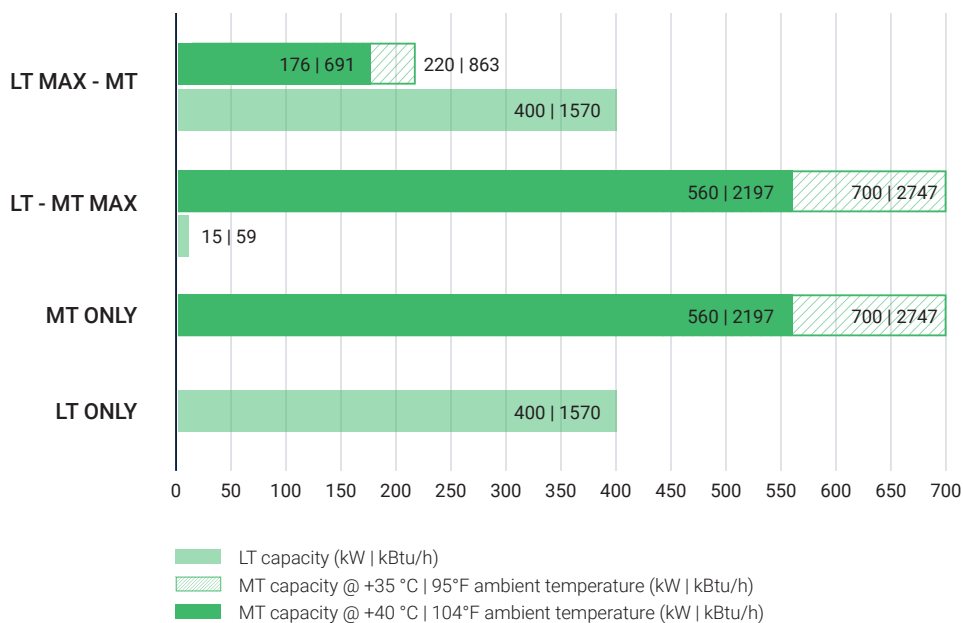


MODULAR DESIGN



STAINLESS STEEL PIPES

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
- Suction filter strainer MT installed
- Suction filter strainer LT installed
- MT suction accumulator
- LT suction accumulator
- Design Pressure: 120 / 60 / 52 / 30 bar

Accessories on Request

- Frequency inverter on LT lead compressor
- Additional frequency inverters
- 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 (demountable with extra cable)
- Energy meter
- LTGC with 3-way bypass valve

- Gas cooler with 3-way bypass valve
- Liquid level control (4-20mA)
- Electrical cabinet supply power to gas cooler including fuses
- High level liquid sensor
- Larger liquid receiver volumes available
- Outdoor enclosure (reach in)
- Low noise enclosure
- Two stages Heat Recovery (Tap Water & Heating)
- Mechanical subcooler
- Ejector HP/LE and LP
- LP ejector
- Other max. design pressures available: 130 / 80 / 60 / 60 bar

Technical data Booster (a)

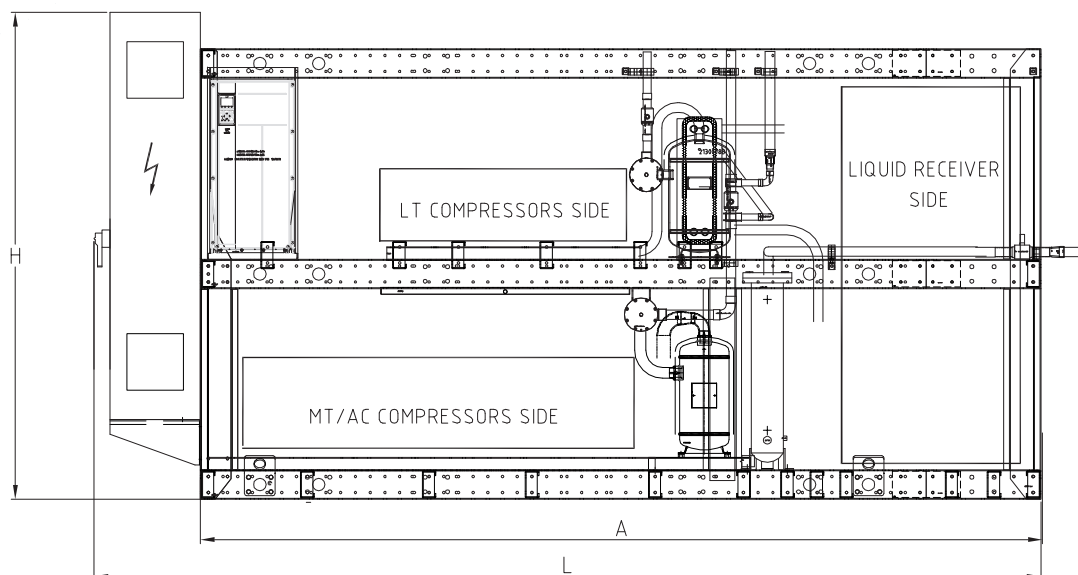
MODEL		MWT BTDX	MWT MTDX	MWT MTDX + BT
Max. Number of Compressors MT(IT) / LT (a)	n°	10 / 6	12 (5)	12 (5) / 4
MT Max. Cooling Capacity MT	kW	-	700	700
	kBtu/h	-	2745	2745
LT Max. Cooling Capacity LT	kW	400	-	15
	kBtu/h	1570	-	60
A/C Max. Cooling Load	kW	-	280	280
	kBtu/h	-	1100	1100
Extra DX suction groups (b)		Yes	Yes	Yes
Length - min/max	mm	3210 - 10000	3210 - 10000	3210 - 10000
	inch	125 - 395	125 - 395	125 - 395
Width - min/max	mm	1000 - 1300	1000 - 1300	1000 - 1300
	inch	40 - 50	40 - 50	
Height - min/max	mm	1950 - 2150	1950 - 2150	1950 - 2150
	inch	75 - 85	75 - 85	75 - 85
Liquid receiver volume	L	70 - 124 - 173 - 173AC - 240AC - 281 - 492		
	ft3	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

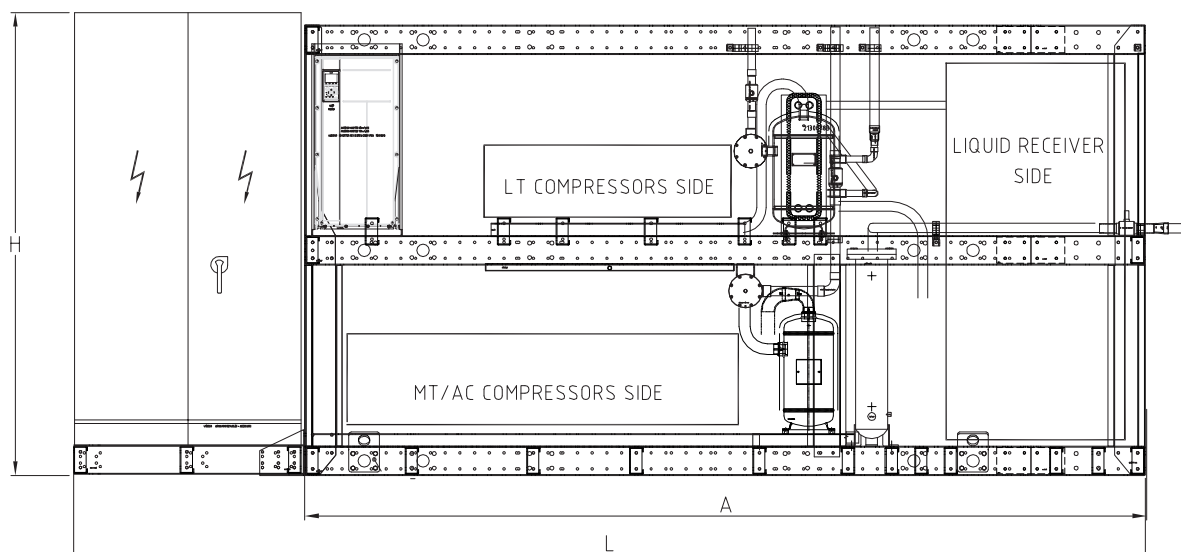
(b) Up to a maximum of 2 MT suction groups + 2 LT suction groups together with A/C

Dimensional Data

Layout A

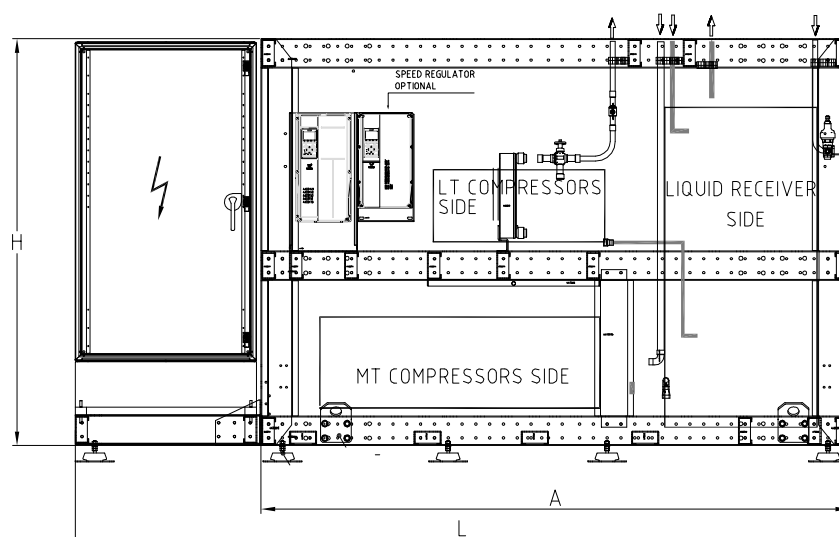


Layout B



Dimensional Data

Layout C





- SCM Frigo External sales, Branches & Partners
- SCM Ref OEM

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on LinkedIn

 www.scmfrigo.com  +39 049 970 5000  info@scmfrigo.com



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SCM FRIGO S.p.A. - Viale Andrea Palladio, 31 35020 Sant'Angelo di Piove di Sacco

