



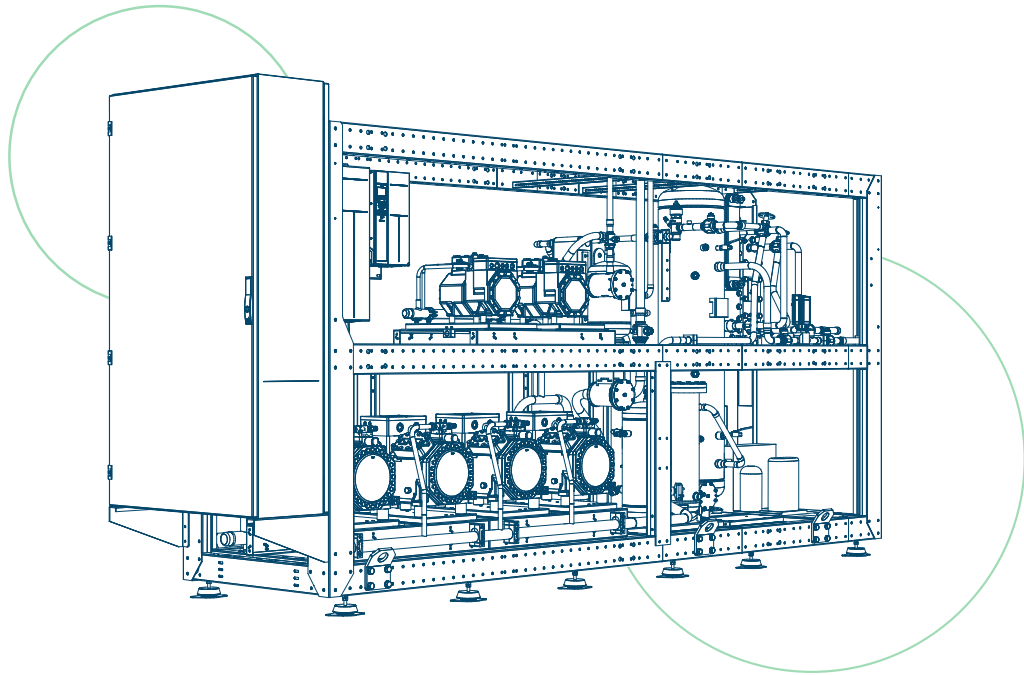
**BOOSTER**

SUSTAINABLE COLD SOLUTIONS

# Transcritical CO<sub>2</sub> Booster Rack



We know the art of achieving  
*a perfect temperature*

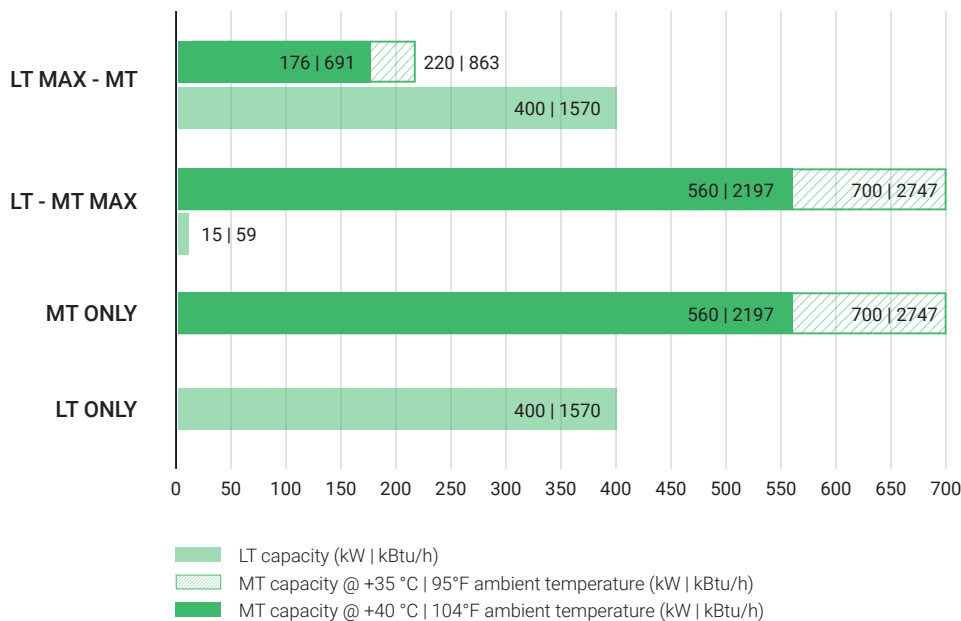


The MWT line by SCM Frigo, initially tailored for supermarket applications, delivers exceptional flexibility with extensive configuration options available in MT or LT only or MT/LT booster configurations. Now also ideal for light-industrial use, the Booster series offers tailored solutions through various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

**MAIN ADVANTAGES**

<p><b>HIGH EFFICIENCY IN ALL CLIMATES</b></p>	<p><b>EJECTOR FOR PERFORMANCE IMPROVEMENT</b></p>	<p><b>HIGH CUSTOMIZATION</b></p>	<p><b>HIGH COOLING CAPACITY</b></p>	<p><b>RELIABLE PERFORMANCE</b></p>	<p><b>MODULAR DESIGN</b></p>	<p><b>STAINLESS STEEL PIPES</b></p>
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**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)

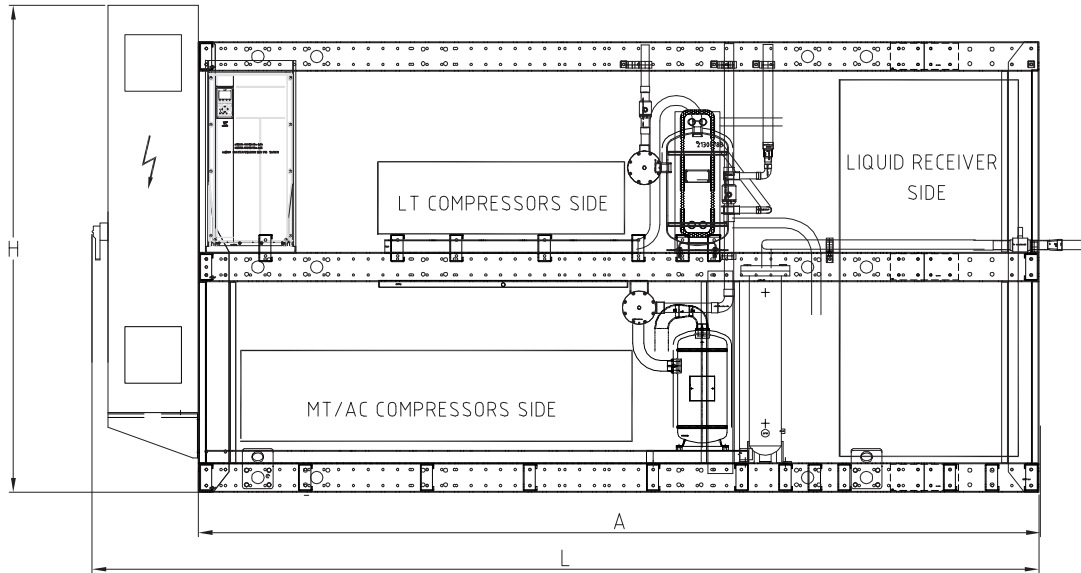
MODEL		MWT BTDX	MWT MTDX	MWT MTDX + BT
Max. Number of Compressors MT(IT) / LT (a)	n°	10 / 6	12 (5)	12 (5) / 4
MT Max. Cooling Capacity MT	kW	-	700	700
	kBtu/h	-	2745	2745
LT Max. Cooling Capacity LT	kW	400	-	15
	kBtu/h	1570	-	60
A/C Max. Cooling Load	kW	-	280	280
	kBtu/h	-	1100	1100
Extra DX suction 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	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

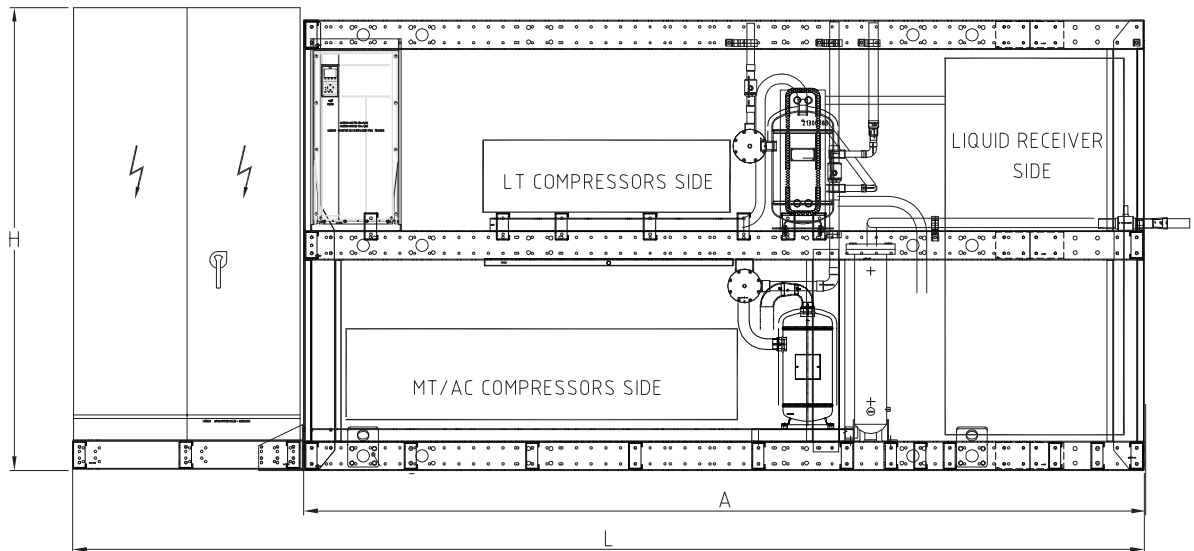
(b) Up to a maximum of 2 MT suction groups + 2 LT suction groups together with A/C

# Dimensional Data

## Layout A

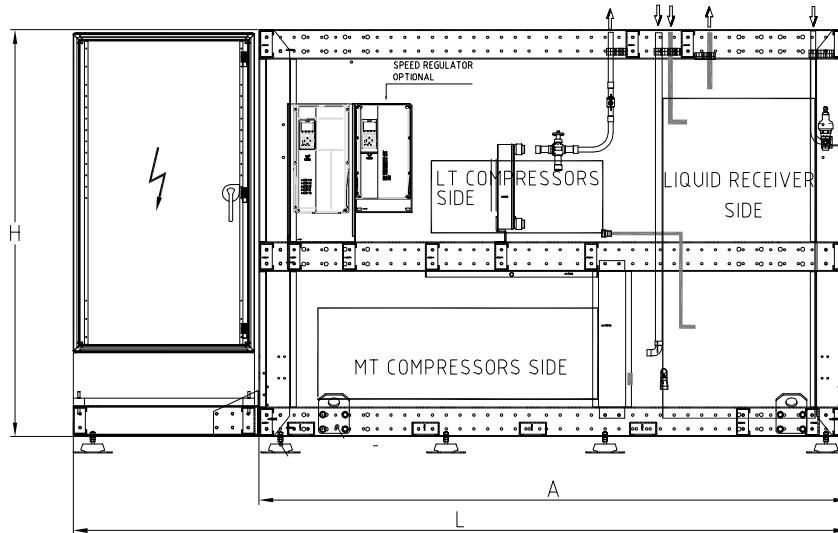


## Layout B



# Dimensional Data

## Layout C









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- SCM Ref OEM

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