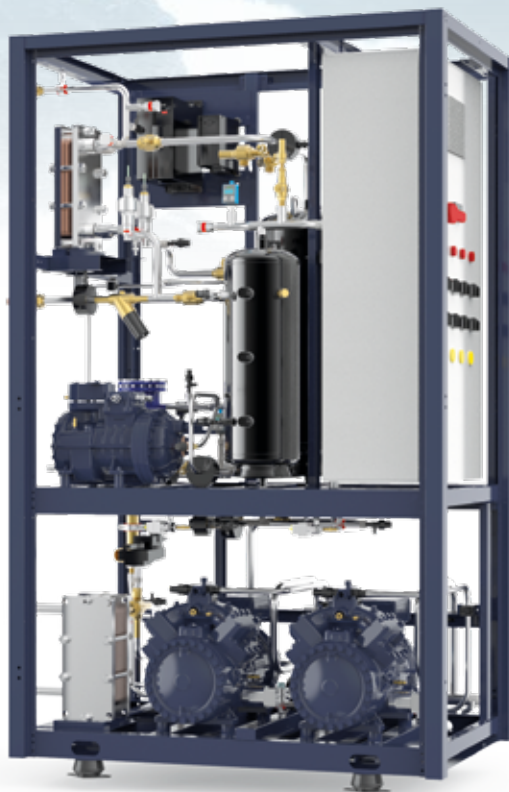


# TAGO

## REFRIGERATION BOOSTER UNIT

Cooling capacity from 10 kW to 40 kW in Medium Temperature  
Cooling capacity up to 8 kW in Low Temperature



Enex presents TAGO, the new range of transcritical CO<sub>2</sub> refrigeration units, designed to combine compactness and high reliability. Available in 7 sizes with 2 MT compressor and 1 LT compressor, it is only 800 mm wide. With its tower shape, it is ideal for installation in plant rooms with restricted footprint and/or where access is through narrow doors.

Enex was the first ever company to develop CO<sub>2</sub> only solutions since 2004. CO<sub>2</sub> is a natural fluid with zero OPD, GWP = 1. Neutral refrigerant of excellence, CO<sub>2</sub> is neither toxic nor flammable: it is in fact the one of the natural gases with fewer contraindications and for this reason it is a candidate as the refrigerant of the future, not subject to the F-gas regulation on fluorinated gases.

## LEADING SOLUTION IN RETAIL, FOOD INDUSTRY & PROCESS APPLICATIONS

The Minibooster range TAGO Series is designed for small size commercial refrigeration systems in food retail, food storage, petrol station and other similar applications. It is available in single temperature (MT only) or dual temperature (MT and LT) configurations. It can be provided with a cladding for sound insulation and/or as protection against atmospheric agents for outdoor use.

TAGO is the new range of Enex transcritical CO<sub>2</sub> refrigeration units designed to combine: simplicity, compactness and high reliability.

## MAIN COMPONENTS

### OIL RECOVERY SYSTEM

Enex proven gravity system with oil accumulator on MT suction

### FRAME

Sheetmetal and painted with epoxy powders RAL9001 (other colours on request)

### PIPING

In AISI304L TIG welded stainless steel. Forged stainless steel fittings. The pipes are clamped with industrial type fixings. Cold pipes are thermally insulated with Armaflex insulation or equivalent with closed cells and low vapor permeability

### CONTROL VALVES

Stainless steel step motor valves

### EXCHANGERS

Optional one brazed plate heat recovery exchanger for Space Heating or DHW applications. Regenerative stainless steel plate exchanger between flash gas and high temperature line to guarantee superheating of the vapour from the liquid receiver

### TANKS

In painted carbon steel. Cold storage tanks are insulated as described below. Liquid line design pressure 80 bar

### INSULATION

Armaflex or equivalent with closed cells, combined with protection, for cold parts, with fat bandage and vapor barrier

### LIQUID LEVEL

Visual indicator of the liquid level through sight glasses and low alarm level installed directly on the liquid receiver as standard

### COMPRESSORS

Optimized for operation under specific conditions with low gas pulsations and low vibrations, low oil carry over rate and low starting currents, extreme reliability and trouble free operation have been reached for many years. First compressor per stage equipped with inverters mounted and connected to the rack (speed range according to the compressor)

### LUBRICATION OIL

PAG oil as standard for better oil management and longer compressor life

### DESIGN PRESSURES

For the standard version 36 or 30 bar on the LP / 52 or 60 bar on the MT (if LT section not included) / 80 IP / 120 bar on the HP side.

## TECHNOLOGICAL ADVANTAGES ARISING FROM ENEX KNOW HOW

- High efficiency: optimal realization of the booster cycle with regenerative heat exchanger;
- Robust frame and compact design;
- Stainless steel pipes;
- Easily accessible components;
- Plug and play unit;
- CE / PED certification Cat. IV.

## TECHNICAL DATA

The Minibooster TAGO range includes 7 sizes with pre-defined compressor configurations. The technical data may vary according to the specifications provided and / or agreed with the customer.

TAGO		10					15			
MODEL		2.0 10 kW	2.1 10 kW	2.1 10 kW	2.1 10 kW	2.0 15 kW	2.1 15 kW	2.1 15 kW	2.1 15 kW	2.1 15 kW
Power Input	kW	6,4	7,0	7,4	7,7	10,0	10,5	11,1	11,6	12,0
<b>Low temperature section</b>										
Compressor		0	1	1	1	0	1	1	1	1
Cooling Capacity	kW	-	2,6	4,2	5,6	-	2,6	4,2	5,6	7,8
<b>Medium temperature section</b>										
Compressor		-	2	2	2	2	2	2	2	2
Cooling Capacity	kW	10,0	7,0	5,1	3,4	15,0	12,4	10,8	9,4	7,2
Gas cooler	kW	17	17	17	17	27	27	27	27	27
<b>Connections diameters</b>										
Low temperature suction	mm	-	12	12	12	-	12	12	12	12
Medium temperature suction	mm	12	12	12	12	12	12	12	12	12
Gas cooler line	mm	12	12	12	12	12	12	12	12	12
Liquid line	mm	12	12	12	12	12	12	12	12	12
<b>Tanks Capacity</b>										
Liquid Receiver	l	50	50	50	50	50	50	50	50	50
Oil Receiver/Suction accumulator	l	20	20	20	20	20	20	20	20	20
<b>Dimensions <sup>(1)</sup></b>										
L x W x H	mm	1400 x 800 x 1970					1400 x 800 x 1970			
Weight	kg	1200					1200			

TAGO		20						25					
MODEL		2.0 20 kW	2.1 20 kW	2.1 20 kW	2.1 20 kW	2.1 20 kW	2.1 20 kW	2.0 25 kW	2.1 25 kW	2.1 25 kW	2.1 25 kW	2.1 25 kW	2.1 25 kW
Power Input	kW	12,3	13,1	13,3	13,7	14,1	14,6	15,4	16,1	16,4	16,7	17,2	17,6
<b>Low temperature section</b>													
Compressor		0	1	1	1	1	1	0	1	1	1	1	1
Cooling Capacity	kW	-	2,6	4,2	5,6	7,8	9,9	-	2,6	4,2	5,6	7,8	9,9
<b>Medium temperature section</b>													
Compressor		2	2	2	2	2	2	2	2	2	2	2	2
Cooling Capacity	kW	20,0	17,4	15,8	14,4	12,2	10,1	25,0	22,4	20,8	19,4	17,2	15,1
Gas cooler	kW	34,3	34,3	34,3	34,3	34,3	34,3	43,2	43,2	43,2	43,2	43,2	43,2
<b>Connections diameters</b>													
Low temperature suction	mm	-	12	12	12	16	16	-	12	12	12	16	16
Medium temperature suction	mm	16	16	16	12	12	12	16	16	16	16	16	16
Gas cooler line	mm	16	16	16	16	16	16	16	16	16	16	16	16
Liquid line	mm	16	16	16	16	16	16	16	16	16	16	16	16
<b>Tanks Capacity</b>													
Liquid Receiver	l	50	50	50	50	50	50	50	50	50	50	50	50
Oil Receiver/Suction accumulator	l	20	20	20	20	20	20	20	20	20	20	20	20
<b>Dimensions <sup>(1)</sup></b>													
L x W x H	mm	1400 x 800 x 1970						1400 x 800 x 1970					
Weight	kg	1200						1200					

(1) Without feet

Performances are referred to the following conditions:

- Evaporation temperatures - Low temperature evap. -30°C / Medium temperature evap. -8°C
- Ambient temperature 34°C
- Discharge compressor pressure 92 bar
- Outlet gas cooler temperature 36°C

TAGO		30						35					
MODEL		2.0 30 kW	2.1 30 kW	2.1 30 kW	2.1 30 kW	2.1 30 kW	2.1 30 kW	2.0 35 kW	2.1 35 kW	2.1 35 kW	2.1 35 kW	2.1 35 kW	2.1 35 kW
Power Input	kW	18,0	18,6	18,8	19,0	19,5	19,9	20,8	22,0	22,3	22,6	23,2	23,6
<b>Low temperature section</b>													
Compressor		0	1	1	1	1	1	0	1	2	1	1	1
Cooling Capacity	kW	-	2,6	4,2	5,6	7,8	9,9	-	2,6	4,2	5,6	7,8	9,9
<b>Medium temperature section</b>													
Compressor		2	2	2	2	2	2	2	2	2	2	2	2
Cooling Capacity	kW	30,0	27,4	25,8	24,4	22,2	20,1	35,0	32,4	30,8	29,4	27,2	25,1
Gas cooler	kW	50,0	50,0	50,0	50,0	50,0	50,0	58,7	58,7	58,7	58,7	58,7	58,7
<b>Connections diameters</b>													
Low temperature suction	mm	-	12	12	12	16	16	-	12	12	12	16	16
Medium temperature suction	mm	22	22	22	22	22	22	22	22	22	22	16	22
Gas cooler line	mm	16	16	16	16	16	16	16	16	16	16	16	16
Liquid line	mm	16	16	16	16	16	16	16	16	16	16	16	16
<b>Tanks Capacity</b>													
Liquid Receiver	l	50	50	50	50	50	50	50	50	50	50	50	50
Oil Receiver/Suction accumulator	l	20	20	20	20	20	20	20	20	20	20	20	20
<b>Dimensions <sup>(1)</sup></b>													
L x W x H	mm	1400 x 800 x 1970						1400 x 800 x 1970					
Weight	kg	1200						1200					

TAGO		40					
MODEL		2.0 40 kW	2.1 40 kW	2.1 40 kW	2.1 40 kW	2.1 40 kW	2.1 40 kW
Power Input	kW	23,2	23,9	24,2	24,5	25,0	25,4
<b>Low temperature section</b>							
Compressor		0	1	1	1	1	1
Cooling Capacity	kW	-	2,6	4,2	5,6	7,8	9,9
<b>Medium temperature section</b>							
Compressor		2	2	2	2	2	2
Cooling Capacity	kW	40,0	37,4	35,8	34,4	32,2	30,1
Gas cooler	kW	65	65	65	65	65	65
<b>Connections diameters</b>							
Low temperature suction	mm	-	12	12	12	16	16
Medium temperature suction	mm	22	22	22	22	22	22
Gas cooler line	mm	16	16	16	16	16	16
Liquid line	mm	22	22	22	22	22	22
<b>Tanks Capacity</b>							
Liquid Receiver	l	50	50	50	50	50	50
Oil Receiver/Suction accumulator	l	20	20	20	20	20	20
<b>Dimensions <sup>(1)</sup></b>							
L x W x H	mm	1400 x 800 x 1970					
Weight	kg	1200					

(1) Without feet

Performances are referred to the following conditions:

- Evaporation temperatures - Low temperature evap. -30°C / Medium temperature evap. -8°C
- Ambient temperature 34°C
- Discharge compressor pressure 92 bar
- Outlet gas cooler temperature 36°C

## DISTINCTIVE FEATURES AND BENEFITS OF THE RANGE

Regenerative heat exchanger between flash gas and high temperature line to protect compressor and to increase the efficiency of the unit

Inverter frequency converter

Electrical panel

Tig welded stainless steel piping

Liquid receiver with triple protecting coating (risk of corrosion eliminated)

Accumulator/oil receiver

Collector for ducting of relief valves

Mechanical filters on medium temperature suction line

Drier filter on liquid line

Low temperature compressor

Heating recovery plate exchanger

Medium temperature compressor

"Anti vibration" feet for compressors

All in stainless steel pipe

Individual oil level control module

## OPTIONS

- One heat recovery exchanger for Space Heating or DHW application
- Complete ducting of the relief valve discharge
- Dorin or Bitzer compressors
- Differential circuit breakers 300 mA "Type A" on compressors
- Main switch with MX coil
- Housing for indoor/outdoor
- Muffler for low noise applications on compressors discharge line (SPARE)



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