

NS21

COMPACT CO₂ MINI COMPRESSOR RACKS

CO₂

MINI COMPACT UNITS, WITH A FOOTPRINT OF LESS THAN 1 m² AND HIGHLY COMPETITIVE FOR THE GENERATION OF COLD WITH CO₂ IN THE TRANSCRITICAL CYCLE. IT SERVES REFRIGERATION & FREEZING, WORKING AS A BOOSTER. ITS DESIGN ALLOWS EASY ACCESS TO THE COMPONENTS, MAKING EASY TASKS.

- > FOOD RETAIL (CONVENIENCE STORES)
- > SOLUTIONS FOR RETAIL GAS STATIONS
- > HOSPITALITY INDUSTRY
- > SUPERMARKETS
- > REFRIGERATED ROOMS



Cooling capacity: **18 to 45 kW**
Application: **200 to 600 m²**



FRONT DOOR OPENING THROUGH HINGES AND HIGHLY ACCESSIBLE

VERTICAL LIQUID CONTAINER WITH EXCHANGER PREPARED FOR ITS CONNECTION TO THE EMERGENCY UNIT

SWITCHBOARD WITH CONTROL UNIT AND COMPLETE WIRING
COMPATIBLE WITH TEWIS REMOTE MANAGEMENT SYSTEMS

SIDE DOOR ALSO ACCESSIBLE

UP TO 2 MT COMPRESSORS AND 1 LT COMPRESSOR
EASY ACCESS AND MAINTENANCE

360° access, with lateral practicable door.



DESIGN ADAPTED FOR BETTER LOADING AND TRANSPORTATION

GAS COOLERS COMBINATIONS



TRANSCRITICAL GAS COOLERS

- Power supply at 3F / 400V / 50Hz.
- Pre-lacquered galvanized steel.
- Two V-shaped coils.
- EC fans
- Radial condensers with top, front or rear air outlet option.

FEATURES

- Oil separator accumulator.
- 48 l liquid container, with internal exchanger for connection to emergency unit.
- Emergency unit not included (junctions included). Required power: 280 W @R134a Tev +5°C.
- **Two** electronic refrigerant level sensors (high and low levels).
- All **copper** pipes and connections.
- **Frequency inverter** for the first MT compressor and optional for the LT compressor.
- Selectable electronics brand: **Tewis** (EWCM9000pro), **Danfoss** (AK-PC 772) or **Carel** (pRack PR300T Medium).
- Outdoor chassis option.
- Option of connections to an external **RHX**. In MT models the RHX can be installed.
- Design pressures:
 - **MP** (MT suction) : 52 bar.
 - **LP** (LT suction) : 30 bar.
 - **IP** (Container and liquid line) : 70 bar.
 - **HP** (Discharge): 120 bar.

Bitzer

BASE CODE	APPLICATION	CAPAC. kW MT*	CAPAC. kW LT*	GC NEEDED kW	MT COMPRESSORS	LT COMPRESSORS	Lp dB(A)**
GNS21JC302YBX	MT	18,17	—	32,08	1x 2MTE-5K + 1x 2KTE-7K	—	38,7
GNS21JC872YBX	MT	22,63	—	39,96	1x 4PTC-7K + 1x 4MTC-7K	—	46,7
GNS21JC882YBX	MT	35,15	—	62,08	1x 4MTC-10K + 1x 4KTC-10K	—	47,3
TNS21JC304YBX	MT+LT	14,24	3,90	32,08	1x 2MTE-5K + 1x 2KTE-7K	1x 2MSL-07K	39,4
TNS21JC881YBX	MT+LT	31,88	3,23	62,08	1x 4MTC-10K + 1x 4KTC-10K	1x 2NSL-05K	47,4
TNS21JC880YBX	MT+LT	31,22	3,90	62,08	1x 4MTC-10K + 1x 4KTC-10K	1x 2MSL-07K	47,4

Dorin

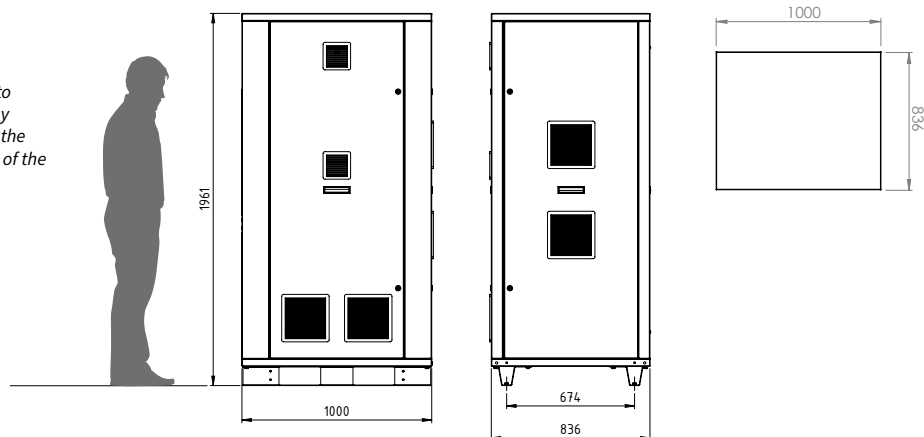
GNS21JC677YBX	MT	25,58	—	45,17	1x CD475-4,7H + 1x CD475-6,4M	—	39,6
GNS21JC684YBX	MT	36,35	—	64,18	1x CD490-6,4H + 1x CD490-9,2M	—	41,2
GNS21JC750YBX	MT	44,71	—	78,95	1x CD4120-9,2H + 1x CD490-9,2M	—	42,1
TNS21JC670YBX	MT+LT	21,07	4,37	45,17	1x CD475-4,7H + 1x CD475-6,4M	1x CDS101B	39,7
TNS21JC679YBX	MT+LT	27,93	8,15	64,18	1x CD490-6,4H + 1x CD490-9,2M	1x CDS181B	41,3
TNS21JC678YBX	MT+LT	30,33	5,83	64,18	1x CD490-6,4H + 1x CD490-9,2M	1x CDS151B	41,3
TNS21JC658YBX	MT+LT	31,83	4,37	64,18	1x CD490-6,4H + 1x CD490-9,2M	1x CDS101B	41,3
TNS21JC753YBX	MT+LT	34,05	10,30	78,95	1x CD4120-9,2H + 1x CD490-9,2M	1x CDS301B	42,2
TNS21JC659YBX	MT+LT	40,19	4,37	78,95	1x CD4120-9,2H + 1x CD490-9,2M	1x CDS101B	42,1

* Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsgc +35°C.

** Sound pressure at 10m, considering a spherical surface, in open ground and with soundproofing. Tolerance ±2 dB.

DIMENSIONS

● Reduced dimensions to allow an easy access to all the components of the machine.



TRANSCRITICAL GAS COOLERS

	CODE	CAPACITY [kW]	AIR FLOW [m ³ /h]	SOUND PRESSURE 10m [dB(A)]	N. FANS
AXIAL	GNV58PE	58,84	16.400	52	2x Ø500 EC
	GNV58PE LPS	52,15	12.800	46	2x Ø500 EC
	GNV66PE	88,40	24.000	53	3x Ø500 EC
	GNV66PE LPS	79,27	19.200	45	3x Ø500 EC
RAD.	GNV58NE	56,28	15.000	49	2x Ø500 EC
	GNV66NE	85,61	22.500	50	3x Ø500 EC



* Calculation conditions: Air T. 35°C, GC outlet 37°C, Gas Inlet T. 115°C, Gas Pressure 92 bar. Available pressure radial models. 100 Pa