



GHH CS80/1 CS85

Soundproofed compressor installation | powerband driven

RTI Transport Installaties B.V.





RTI is specialised in manufacturing and mounting low-noise, low maintenance and sustainable compressor installations tailored to the customers wishes.



About RTI

RTI is an internationally and independently operating organisation specialised in manufacturing and mounting compressor installations.

Motivation, trust and continuous improvement are the basic principles of our company. Our goal is a good, confidential and long-lasting cooperation with our customers. We try to live up to our principles and achieve this goal by delivering

a product tailored to your specific requirements. The RTI constructors and technicians will find a solution for your every wish. Furthermore we provide maintenance and service regarding your installations. The collaboration with several service

facilities in Europe allows us to also provide a high level of support with respect to maintaining and servicing the installations en route.

Not depending on compressor manufacturers, we are able to select the compressor best suited for your exact requirements. In this brochure you will find more information on RTI installations.



**Development,
manufacturing and
mounting transport
installations.**

The RTI installation

An RTI installation is made completely of aluminium and is provided with a polyester cover. Two quick-adjust buckles enable opening and closing the hood with ease. In order that when maintenance is due the installation is easily accessible. The entire unit is covered on the inside with soundproofing and fire-retardant material.



Compressor

The compressor is mounted in the enclosure within the same mounting angle as the truck's gearbox. The tensioner is produced specifically for the truck to optimize the mounting angle of the PTO-shaft; in compliance with the truck dealer's mounting directives.

Location

The installation is mounted on the passenger side of the truck with three mounting brackets. The brackets are spread equally across the entire width of the installation, to prevent point load on the chassis.



Chassis

The chassis has to be clear on the passenger side of the truck to enable mounting. Any air vessels and/or piping needs to be at the same height as the bottom of the chassis. You will find the required mounting space in the technical specifications of this brochure.

Custom made solutions

If the available space is smaller than the required mounting space, contact us to find a solution. We are able to provide solutions tailored to your wishes.



- the compressor draws in cleaner and cooler air -

Intake, filters and silencers

Every RTI installation is equipped with a high air intake or rain cap, a pulsation silencer and air filters.

High air intake

It is possible to equip a compressor installation with a high air intake developed by RTI. Air is drawn in at the top of the driver's cab, this prevents the intake of dust and exhaust gasses.

Advantages of a high air intake:

- Cleaner and cooler air will be drawn in for the compressor.
- The high air intake increases the longevity of the air filter.
- The high air intake can be adjusted to the Mobil Plastics requirements for air intake. (MP requirements state that air should be drawn in at the top of the driver's cab.)

Rain cap inside chassis

When installing a high air intake is technically not possible, the installation will be equipped with a rain cap. A rain cap is installed between the chassis, out of the heat exhaust pipe's range.

Silencers and filter

- Pulsation silencer RTI/MMT

The aluminium pulsation silencer is constructed based on the volume size and is equipped with a steered pressure relief valve and a built in non-return valve.

- Combined air filter/intake silencer RTI/Mira

The aluminium filter unit is equipped with a high-quality and moisture resistant 5 µm air filter.



Intake according to MP requirements

Cooling & drive

RTI Transport Installaties B.V. has developed several cooling and drive options for your installation. Let the RTI specialists inform you which option is best suited for your application.



Forced air cooling

An aluminium fan directly connected to the compressor will increase operating reliability.

Advantages of forced air-cooling:

- Increasing operating reliability
- No electrical fan needed



Compressed air cooler

Especially for combustible or temperature sensitive products the installation is equipped with a compressed air cooler. The compressed air cooler is completely made of aluminium and cools the compressed air approximately 100°C. Depending on intake temperature, pressure and cargo-quantity the outlet temperature is roughly 65°C.

The silencer, filter and pipes are also made of aluminium. When combining these parts with a cooler the installation meets the chemical and food supply industry's requirements.



Powerband drive

In order to transfer a larger capacity and to prevent the V-belt jumping off the pulley as a result of too little suspense, the installation can be equipped with powerband (special V-belt) drive in combination with an automatic tightening system. The automatic tightening system is a rubber element which will keep the powerband in suspense at all times and reduces the vibration in the transmission.



Aluminium bearing block

RTI has developed an aluminium bearing block made completely of aluminium. This bearing block is combined with an automatic tightening system and powerband drive. The bearings are lubricated with oil and sealed with two oil seals. The bearing block is maintenance free and equipped with robust roller bearings.

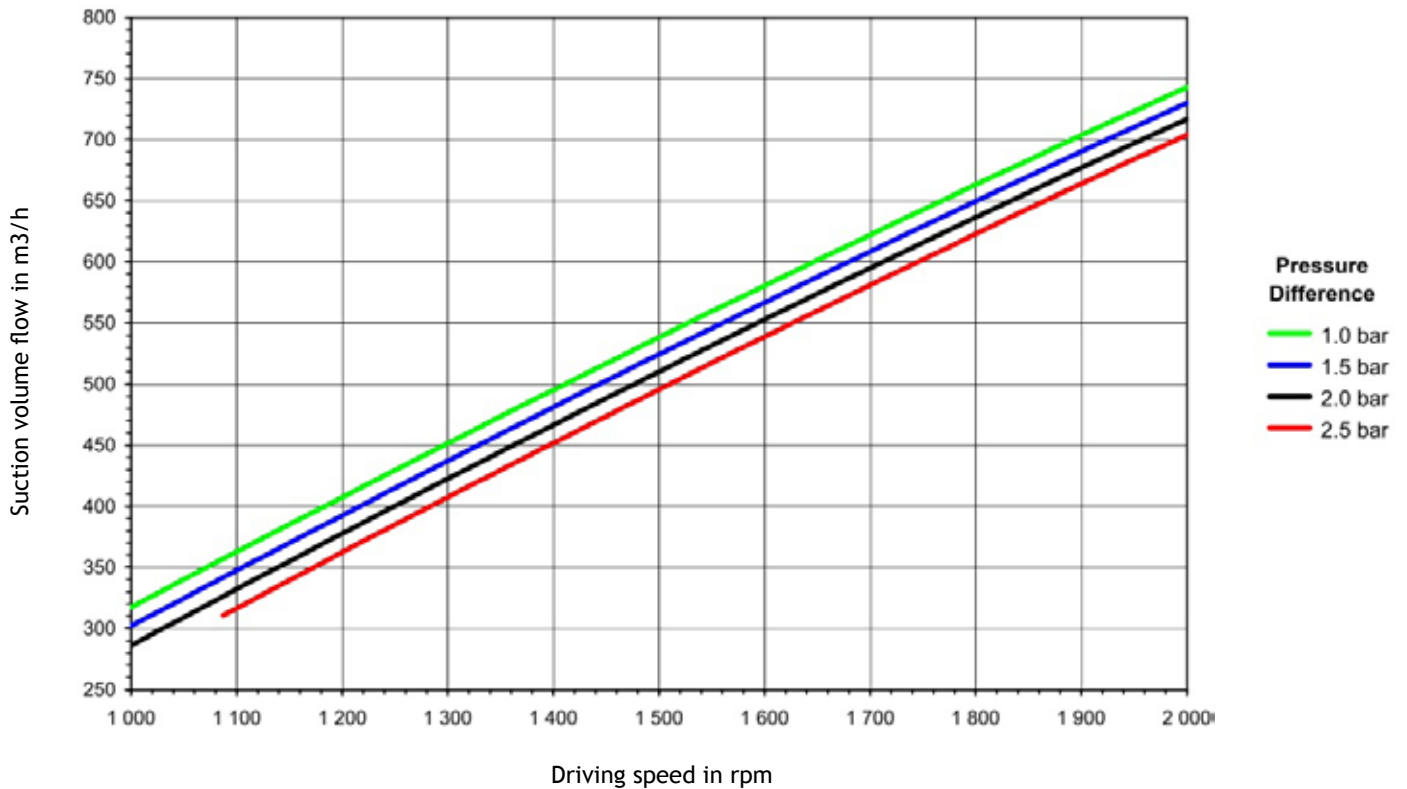
Technical data



Type	CS80/1
System	Screw
Flow rate (m3/h) at 1.5 bar	730
Flow rate (m3/h) at 2 bar	717
Flow rate (m3/h) at 2.5 bar	704
Driving speed (RPM)	1000 - 2000
Suction condition	1 bar-20 °C
Maximum pressure	2.5 bar
Power at coupling	41 kW at 2 bar
Min. mounting space (m)	1.00
Soundlevel	81 dBa
Dimensions (cm)	95x75x75
Weight incl. cooler	317 kg

Performance prediction CS80/1

Medium: air, 1 bar (abs.), 20 °C, relative humidity 60%



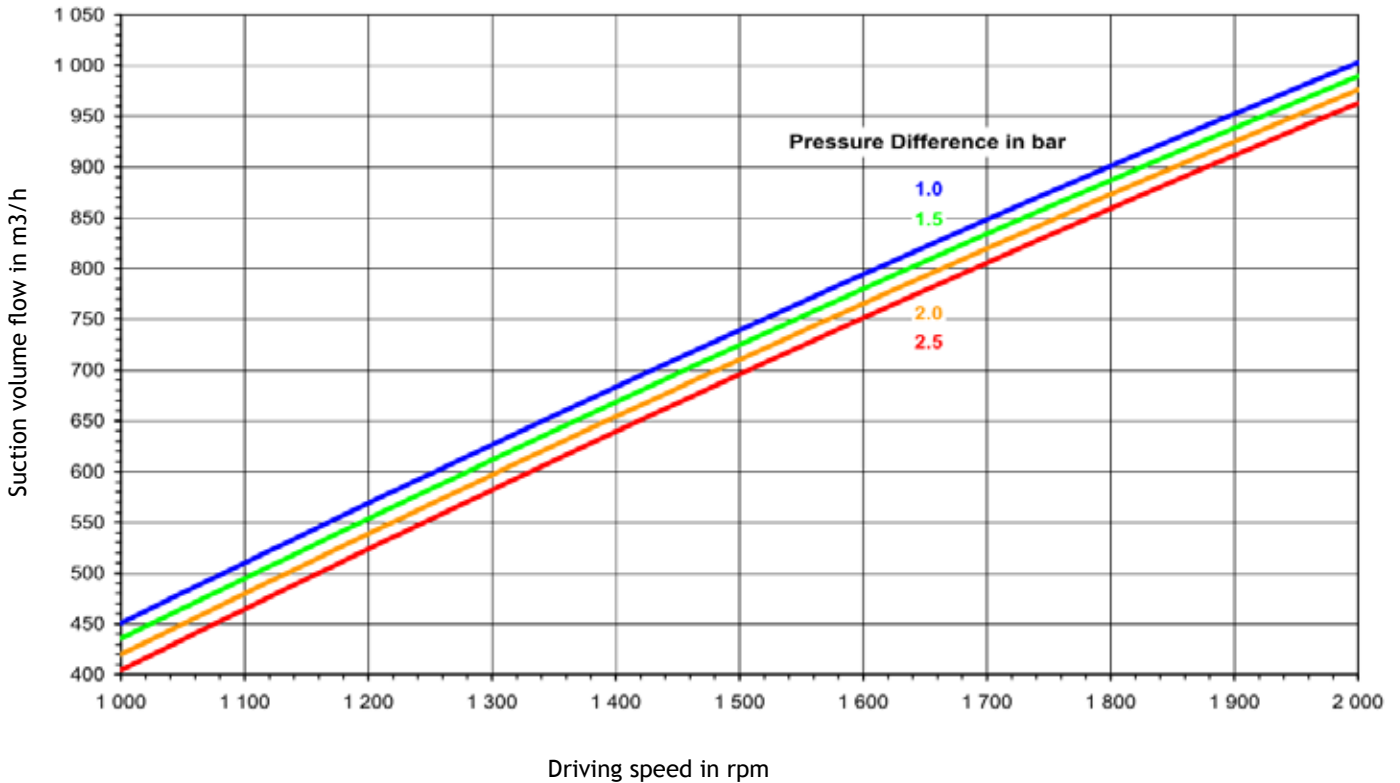
Technical data



Type	CS85
System	Screw
Flow rate (m3/h) at 1.5 bar	990
Flow rate (m3/h) at 2 bar	976
Flow rate (m3/h) at 2.5 bar	963
Driving speed (RPM)	1000 - 2000
Suction condition	1 bar-20 °C
Maximum pressure	2.6 bar
Power at coupling	kW at 2 bar
Min. mounting space (m)	1.00
Soundlevel	81 dBa
Dimensions (cm)	95x75x75
Weight incl. cooler	317 kg

Performance prediction CS85

Medium: air, 1 bar (abs.), 20 °C, relative humidity 60%





Options

RTI delivers the compressor installation tailored to the customer's wishes with the following options:

Compressed air cooler at the bottom

To save space the compressed air cooler can be installed at the bottom of the installation.
The minimum space required to mount the installation is 850mm.

Air outlets

The standard outlets of an RTI installation are placed at the front of the cooler, the cold outlet at the top and the warm outlet at the bottom. These outlets can be changed according to your wishes.

Hydraulics

RTI manufactures and installs complete tipper hydraulic systems designed to your own specifications. You decide on the type of couplings and where you want them to be fitted.

Other options

Flexible use of the installation can be attained by the following options:

- a blow-off silencer
- an extra pressure relief valve (high/low pressure)
- cold and warm air mixing
- a combination of the above

Your compressor tailored to your wishes by RTI's specialists with several options and additions. Please contact us for more information.



Your compressor tailored to your wishes with RTI options!

Contact us today!

Why an RTI installation?

- There will be no formation of rust because the RTI-compressor-installation is completely made of aluminium.
- The installation weighs at least 70 kg less than similar installations.
- The sound level is lower due to an RTI/MMT pulsation silencer, a combined RTI/Mira air-filter/silencer and the insulation in the enclosure.
- The bearing block is maintenance free (4 years), oil lubricated.
- The mounting angle of the PTO-shaft meets the mounting requirements of the truck dealers.
- The installation is driven by a powerband (special V-belt) which results into a greater power transmission. The automatic tightening system prevents the V-belt jumping off a pulley as a result of too little suspense.
- Conversion to another truck with the same rotation direction is easily achieved because of the 3 hooks with identical hole-pattern.
- The installations are available in every colour.
- The fan in the installation is directly connected (no electrical fan).
- Your own compressor can be assembled in the enclosure on request.
- Mounting the installation is simple due to a set of prefabricated mounting brackets.

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Over the years RTI gained experience as specialist in developing, manufacturing and mounting transport-installations, because of this RTI's specialists can guaranty high quality.



Choose quality

RTI is ISO 9001:2008 certified and RTI's products meet the required standards.

Warranty

The installation is developed according to the manufacturers directives therefore warranty is completely covered by the manufacturer.

- 12 month warranty on the compressor
- 48 month warranty on the RTI construction

Delivery

Ready for operation, including PTO-shaft painted in chassis colour.

To prevent differences in colour, in case the colour is not an original chassis/RAL colour, you can supply the colour and hardener yourself.

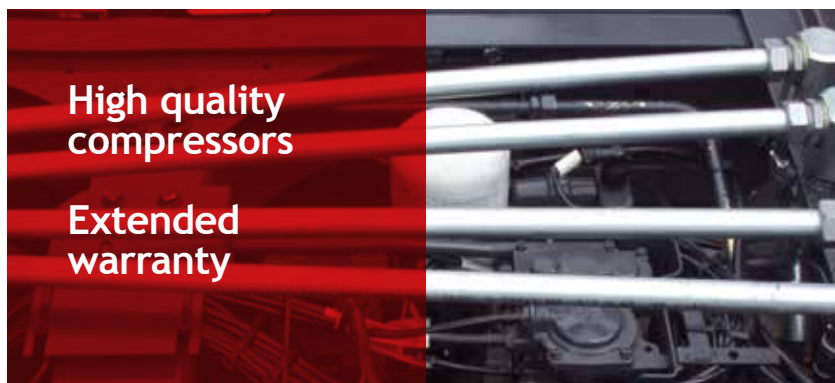
ISO certificate

RTI is ISO 9001:2008 certified

RTI has a good and workable policy with clear goals, a good quality control and qualified personnel. RTI's internal communication, descriptions of processes within the organisation and continuous improvement are also secured with this certificate.

CE-Marking

RTI installations meet the requirements of CE standard 2007/42/EG



High quality compressors

Extended warranty



RTI Transport Installaties B.V.

Over 25 years your compressor specialist!

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