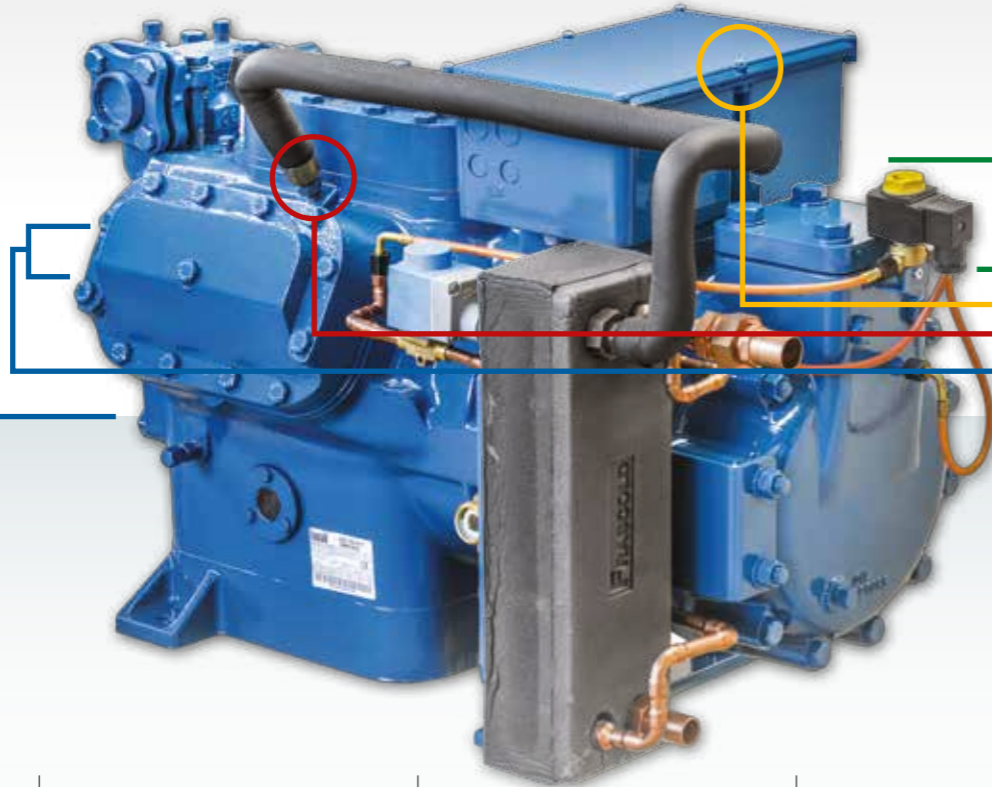


01 HIGH EFFICIENCY

02 EASY and COMPACT

03 RELIABLE

04 HEAVY DUTY



Injection for motor cooling:

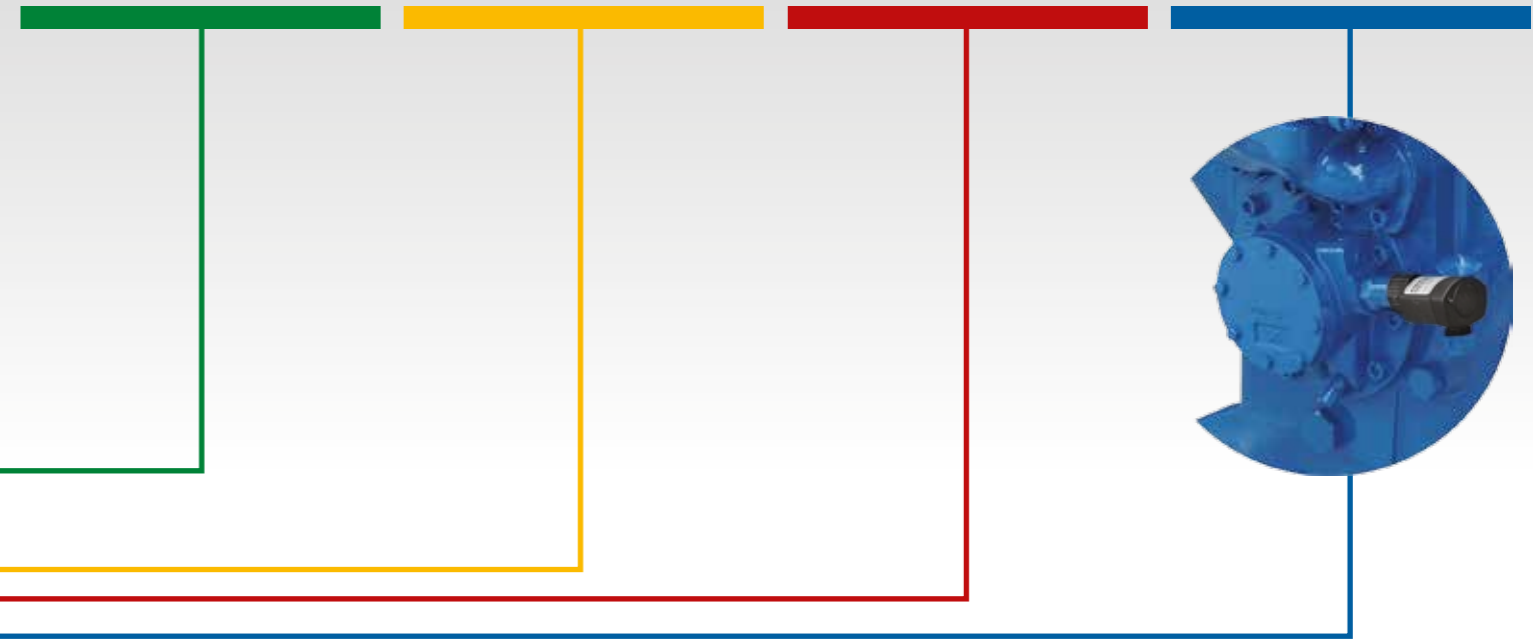
- Managed from the **Motor Cooling System** module
- Very short duration
- Only the quantity necessary for motor cooling is injected
- High efficiency

- **Motor Cooling System** fully cabled in the compressor electrical board
- TA module fully cabled in the compressor electrical board
- Kriwan Diagnose available for the compressor diagnostics

Liquid injection positioned on the second stage head

Oil pump pressure check:

- With Delta-P® II for system with ΔP check from PLC
- With INT250FR for system without PLC or without ΔP direct check



FRASCOLD EXCLUSIVE

- **Liquid injection perfectly calibrated** in quantity and durability due to the positioning of the bulb on the second stage head
 - Maximization of COP
 - Instantaneous mixing of the first stage gas with liquid injection
 - High accuracy of the suction temperature in the second stage
 - Gas doesn't pass from motor so **it's not overheated** obtaining the performance maximization

- Avoids ice formation on the motor side:
 - No oxidation
 - No condensation in the electrical box avoiding short circuit risk
 - Avoided the liquid slugging risk

FRASCOLD EXCLUSIVE

MOTOR COOLING SYSTEM

- It controls the motor temperature through AMS sensors during the critical starting phase!
- Detection threshold PRE-ALARM temperature: the module activates the liquid injection in the motor with correct quantity and duration optimising the maximum COP
- Detection threshold CRITICAL TEMPERATURE: the module stops the compressor preventing the burn
- Stopping of injection in case of liquid absence in the system
- TA module included to stop the injection when the compressor is switched off
Possibility to manage the function directly from the control panel

- **Improvement of the system's COP**
- Thanks to the **Motor Cooling System** only a defined liquid quantity cools the motor

- **WITHOUT EXTERNAL PIPEWORK** thanks to design of **specific internal passages** and **new heads**
- Eliminated the thermal dissipation of the external pipework insulation
- Eliminated the refrigerant leakage risk from the collector welding

- Finely balanced components and construction ensure quiet and smooth operation
- New components studied for pulsations reduction
- **Development and production Made in Italy**
- 100% tested
- Manufactured with high quality components
- Oil sump also dimensioned for marine applications

- Motor protection with **Motor Cooling System** module and AMS sensors (linear temperature sensor)

AVAILABLE IN 3 VERSIONS

	MOTOR COOLING SYSTEM	KRIWAN DIAGNOSE	Delta-P® II	INT 250 FR	MAKE YOUR CHOICE
STANDARD CONTROL	✓		✓		Adapt for SYSTEM with ΔP survey from PLC a dedicated signal connects the Delta-P® II to PLC allowing instant identification of the stop cause
DIAGNOSTIC CONTROL	✓	✓	✓		Adapt for SYSTEM with ΔP survey from PLC a dedicated signal connects the Delta-P® II to PLC allowing instant identification of the stop cause Compressor Diagnostic analysis included.
DIRECT CONTROL	✓	✓		✓	Adapt for SYSTEM without PLC or without ΔP direct survey INT250FR, easily connected to the electrical box, allows the ΔP control through the Kriwan Diagnose module.

EACH VERSION AVAILABLE WITH SUBCOOLER

01 02 03 04



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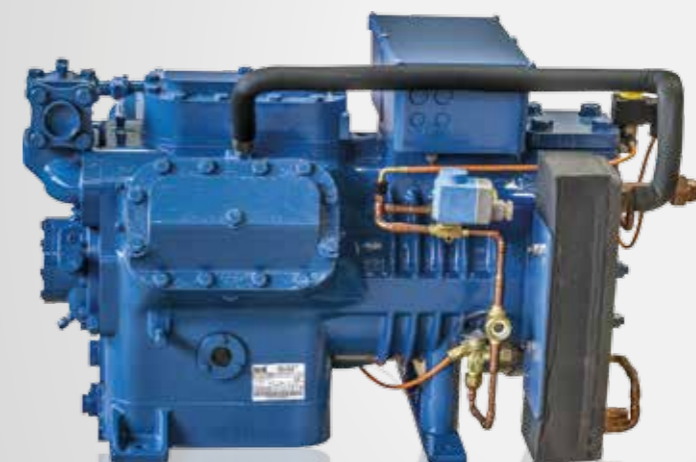
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NEW SEMIHERMETIC DOUBLE-STAGE COMPRESSORS



**COMPACT EFFICIENT
WITH INNOVATIONS UNIQUE ON THE MARKET**

Up to 15% increase of system's COP

MOTOR COOLING SYSTEM

Optimized Liquid injection