



# DRF 180-420 DRF 180-420 IVR

Oil-injected screw  
Compressors  
Fixed & Variable Speed

Solid, simple, smart.  
Advanced reliability in  
compressed air





## **DRF - Gearbox driven - Fixed Speed** **DRF IVR - Gearbox driven - Variable Speed**

Compressed air drives your company. Consequently, choosing the right compressor is crucial. Going for our DRF range of highly adapted oil-injected screw compressors is a choice you will not regret. Bring some fresh air into your company and enjoy the strong performance and high efficiency that comes with it.

## User benefits

### Simple Installation

- Compact and all in one system
- Innovative design
- Easy and fully protected transport

### Solid Quality

- Outstanding and first-class components
- Highly reliable gearbox transmission
- Separate oil and air coolers resulting in less thermal shocks and a longer lifetime
- Perfect air filtration and cooling even in harsh conditions up to 46°C
- Full automatic control
- High quality and heavy duty motor

### Easy Maintenance and Accessibility

- Excellent accessibility to service components thanks to multiple service doors
- Easy access to the coolers
- Easy oil level checks
- Easy and quick check up thanks to service door and controller
- Service and cleaning is a one person job

### Saving of costs

- Designed for low energy consumption and life cycle cost
- Optimal energy efficiency with integrated IVR and Energy Recovery options
- Long service intervals for lower maintenance costs and higher uptime



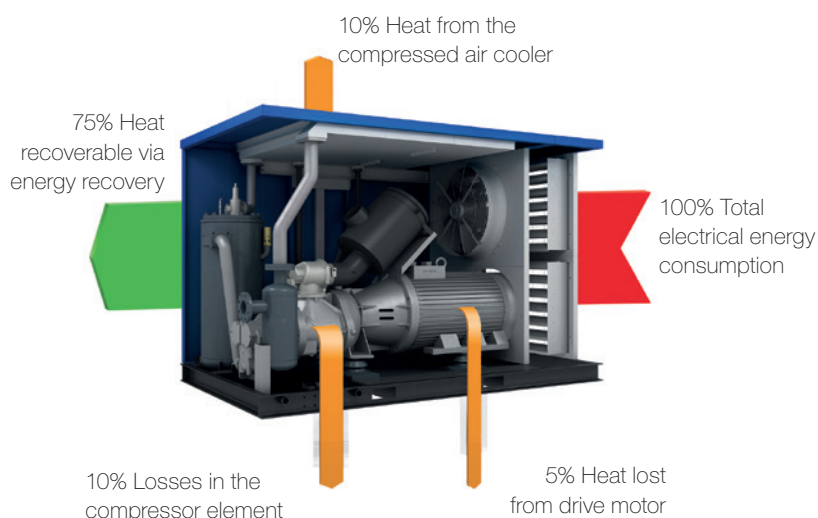
The Ceccato DRF comes in a range spanning from 132 up to 315kW with fixed speed (load-unload) control or variable speed (IVR) control. Energy costs and your specific requirements will help you choose the most suitable compressor for your application. Whatever model you choose, high standard components guarantee performance and design synergy ensures the easy operation you are looking for.

## **Variable speed control** **Frequency inverter regulation (IVR)**

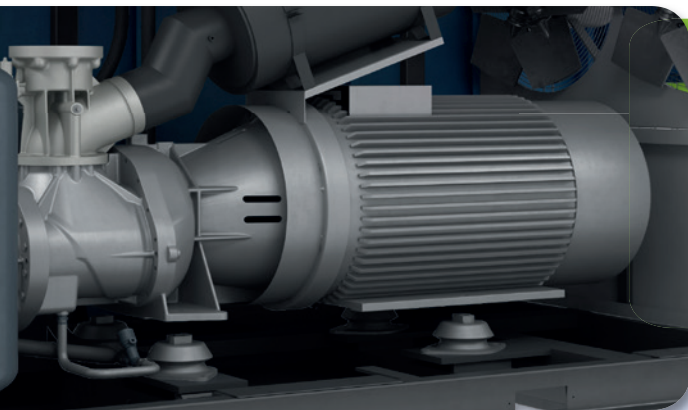
A frequency driven compressor has a working pattern with lower peaks and a smoother air profile. This is achieved by controlling the air delivery and producing only the amount of air required for the customer's application at a specific moment. The net pressure is maintained by use of a frequency inverter. As a result, the compressor consumes only the energy needed, making it very cost efficient.

## **Optimize your energy consumption** **with energy recovery**

When air is compressed, heat is formed. The excess heat can be captured with an energy recovery option and channeled to other applications allowing you to save energy and cut costs. The energy recovery option integrates a heat exchanger on the oil circuit, which heats up the continuously pressurized water flow. The system is regulated automatically, and in case of limited water cooling capacity, the standard cooling system of the compressor will operate and back up the energy recovery device.



## >>> SMART TECHNICAL ADVANTAGES



### THE TROUBLE-FREE PERFORMANCE YOU ARE LOOKING FOR

- In-house designed air ends for optimal reliability and long life
- Increased Free Air Delivery (FAD) and low energy consumption
- Gearbox technology ensures efficient power transmission and high reliability

### RELIABLE COMPONENT SELECTION

- In-house designed core components
- Key components as motors, inverters, electronics from reputable global suppliers



### WATER SEPARATOR DRAIN

- Water separator drain as standard to remove excess water and protect downstream equipment



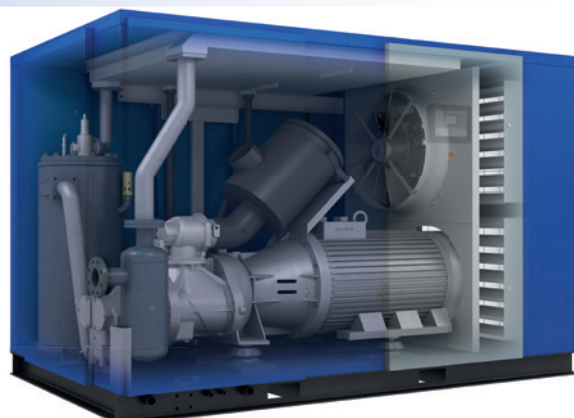
### EASY OPERATION, ALWAYS IN CONTROL

The full range is equipped with the ES4000 ADVANCED:

- Constant pressure follow-up
- Wide choice of timers
- An integrated central controller
- Visualisation possibilities

### SIMPLE MAINTENANCE

- Excellent accessibility to service components thanks to multiple service doors
- Separate air and oil cooler which reduces the thermal tension extending the lifetime of the coolers



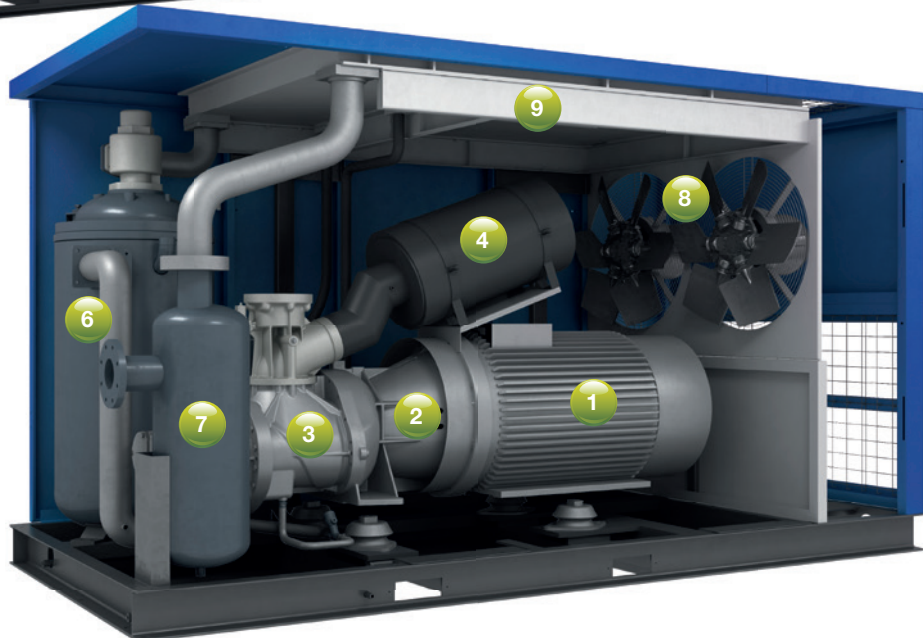


# YOUR ENERGY EFFICIENT AND SOLID PERFORMANCE

## »»» DRF 180 - 420 DRF 180 - 420 IVR

Gearbox driven compressors are suitable for use with a variety of constant speed or variable speed drivers. Local energy costs and application requirements will determine the most economical method of drive for your application. Choosing the heavy duty gearbox solution offers you:

- Higher performance for less energy consumption
- Lower maintenance cost
- No transmission losses
- No belt tensioning



## »»» Components

- |                                   |  |
|-----------------------------------|--|
| 1 IE3 Premium Efficiency motor    | 6 In house designed oil separator vessel |
| 2 Gear driven transmission        | 7 Standard water separator drain         |
| 3 Air end                         | 8 Cooling fan                            |
| 4 Standard enclosed intake filter | 9 Separate air/oil coolers               |
| 5 Intelligent controller          |  |

# GEARBOX DRIVEN - FIXED & VARIABLE SPEED



## Technical data

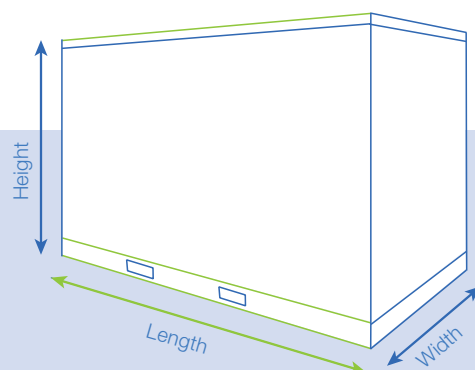
| Fixed speed version | Max working pressure | Reference working pressure | Free air delivery @ reference conditions* |     |      | Motor power |     | Noise level ** | Weight | Compressed air output diameter | Dimensions LxWxH   |
|---------------------|----------------------|----------------------------|---|-----|------|-------------|-----|----------------|--------|--------------------------------|--------------------|
|                     |                      |                            | m³/h                                      | l/s | cfm  | kW          | hp  |                |        |                                |                    |
| Model               | bar                  | bar                        |   |     |      |             |     | dB(A)          | kg     | "                              | mm                 |
| DRF 180             | 7                    | 7                          | 1516                                      | 421 | 892  | 132         | 180 | 77             | 3300   | DN80                           | 2800 x 1755 x 1960 |
|                     | 8                    | 8                          | 1426                                      | 396 | 839  |             |     |                |        |                                |                    |
|                     | 10                   | 10                         | 1260                                      | 350 | 742  |             |     |                |        |                                |                    |
| DRF 220             | 13                   | 13                         | 1087                                      | 302 | 640  | 160         | 220 | 78             | 3650   | DN80                           | 2800 x 1755 x 1960 |
|                     | 7                    | 7                          | 1699                                      | 472 | 1000 |             |     |                |        |                                |                    |
|                     | 8                    | 8                          | 1649                                      | 458 | 970  |             |     |                |        |                                |                    |
| DRF 270             | 10                   | 10                         | 1508                                      | 419 | 888  | 200         | 270 | 79             | 3950   | DN100                          | 3525 x 1755 x 2005 |
|                     | 13                   | 13                         | 1314                                      | 365 | 773  |             |     |                |        |                                |                    |
|                     | 7                    | 7                          | 2056                                      | 571 | 1210 |             |     |                |        |                                |                    |
| DRF 340             | 8                    | 8                          | 1987                                      | 552 | 1170 | 250         | 340 | 80             | 4170   | DN100                          | 3525 x 1755 x 2005 |
|                     | 10                   | 10                         | 1818                                      | 505 | 1070 |             |     |                |        |                                |                    |
|                     | 13                   | 13                         | 1616                                      | 449 | 951  |             |     |                |        |                                |                    |
| DRF 271             | 7                    | 7                          | 2491                                      | 692 | 1466 | 200         | 270 | 77             | 5200   | DN125                          | 4800 x 2155 x 2275 |
|                     | 8                    | 8                          | 2358                                      | 655 | 1388 |             |     |                |        |                                |                    |
|                     | 10                   | 10                         | 2250                                      | 625 | 1324 |             |     |                |        |                                |                    |
| DRF 341             | 13                   | 13                         | 1966                                      | 546 | 1157 | 250         | 340 | 77             | 5350   | DN125                          | 4800 x 2155 x 2275 |
|                     | 7                    | 7                          | 2351                                      | 653 | 1384 |             |     |                |        |                                |                    |
|                     | 8                    | 8                          | 2203                                      | 612 | 1297 |             |     |                |        |                                |                    |
| DRF 420             | 10                   | 10                         | 1998                                      | 555 | 1176 | 315         | 420 | 78             | 6380   | DN125                          | 5100 x 2155 x 2275 |
|                     | 7                    | 7                          | 2765                                      | 768 | 1627 |             |     |                |        |                                |                    |
|                     | 8                    | 8                          | 2538                                      | 705 | 1494 |             |     |                |        |                                |                    |
|                     | 10                   | 10                         | 2362                                      | 656 | 1390 |             |     |                |        |                                |                    |
|                     | 7                    | 7                          | 3139                                      | 872 | 1848 |             |     |                |        |                                |                    |
|                     | 8                    | 8                          | 3136                                      | 871 | 1845 |             |     |                |        |                                |                    |
|                     | 10                   | 10                         | 2894                                      | 804 | 1704 |             |     |                |        |                                |                    |

| Inverter driven version | Max working pressure | Reference working pressure | Free air delivery @ reference conditions* |         |          | Motor power |     | Noise level ** | Weight | Compressed air output diameter | Dimensions LxWxH   |
|-------------------------|----------------------|----------------------------|---|---------|----------|-------------|-----|----------------|--------|--------------------------------|--------------------|
|                         |                      |                            | m³/h                                      | l/s     | cfm      | kW          | hp  |                |        |                                |                    |
| Model                   | bar                  | bar                        |   |         |          |             |     | dB(A)          | kg     | "                              | mm                 |
| DRF 180 IVR             | 7                    | 7                          | 454-1516                                  | 126-421 | 267-892  | 132         | 180 | 77             | 3550   | DN80                           | 2800 x 1755 x 1960 |
|                         | 8                    | 8                          | 428-1426                                  | 119-396 | 252-839  |             |     |                |        |                                |                    |
|                         | 10                   | 10                         | 378-1260                                  | 105-350 | 222-742  |             |     |                |        |                                |                    |
| DRF 220 IVR             | 13                   | 13                         | 328-1087                                  | 91-302  | 193-640  | 160         | 220 | 78             | 3980   | DN80                           | 2800 x 1755 x 1960 |
|                         | 7                    | 7                          | 511-1699                                  | 142-472 | 301-1000 |             |     |                |        |                                |                    |
|                         | 8                    | 8                          | 493-1649                                  | 137-458 | 290-970  |             |     |                |        |                                |                    |
| DRF 270 IVR             | 10                   | 10                         | 454-1508                                  | 126-419 | 267-888  | 200         | 270 | 79             | 4320   | DN100                          | 3605 x 2105 x 2020 |
|                         | 13                   | 13                         | 396-1314                                  | 110-365 | 233-773  |             |     |                |        |                                |                    |
|                         | 7                    | 7                          | 616-2056                                  | 171-571 | 362-1210 |             |     |                |        |                                |                    |
| DRF 340 IVR             | 8                    | 8                          | 598-1987                                  | 166-552 | 352-1170 | 250         | 340 | 80             | 4530   | DN100                          | 3605 x 2105 x 2020 |
|                         | 10                   | 10                         | 547-1818                                  | 152-505 | 322-1070 |             |     |                |        |                                |                    |
|                         | 13                   | 13                         | 486-1616                                  | 135-449 | 286-951  |             |     |                |        |                                |                    |
| DRF 271 IVR             | 7                    | 7                          | 749-2491                                  | 208-692 | 441-1466 | 200         | 270 | 77             | 5550   | DN125                          | 4800 x 2155 x 2275 |
|                         | 8                    | 8                          | 709-2358                                  | 197-655 | 417-1388 |             |     |                |        |                                |                    |
|                         | 10                   | 10                         | 677-2250                                  | 188-625 | 398-1324 |             |     |                |        |                                |                    |
| DRF 341 IVR             | 13                   | 13                         | 601-1966                                  | 167-546 | 354-1157 | 250         | 340 | 77             | 5750   | DN125                          | 4800 x 2155 x 2275 |
|                         | 7                    | 7                          | 706-2351                                  | 196-653 | 415-1384 |             |     |                |        |                                |                    |
|                         | 8                    | 8                          | 659-2203                                  | 183-612 | 388-1297 |             |     |                |        |                                |                    |
| DRF 420 IVR             | 10                   | 10                         | 601-1998                                  | 167-555 | 354-1176 | 315         | 420 | 78             | 6900   | DN125                          | 5100 x 2155 x 2275 |
|                         | 7                    | 7                          | 828-2765                                  | 230-768 | 487-1627 |             |     |                |        |                                |                    |
|                         | 8                    | 8                          | 763-2538                                  | 212-705 | 449-1494 |             |     |                |        |                                |                    |
|                         | 10                   | 10                         | 709-2362                                  | 197-656 | 417-1390 |             |     |                |        |                                |                    |
|                         | 7                    | 7                          | 943-3139                                  | 262-872 | 555-1848 |             |     |                |        |                                |                    |
|                         | 8                    | 8                          | 940-3136                                  | 261-871 | 553-1845 |             |     |                |        |                                |                    |
|                         | 10                   | 10                         | 868-2894                                  | 241-804 | 511-1704 |             |     |                |        |                                |                    |

\*Unit performance measured according to ISO 1217, Annex C, latest edition.

\*\* Noise level measured according to ISO 2151.

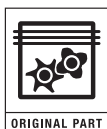
All technical data for air-cooled machines, 50 Hz. For technical data of water-cooled machines, please contact your local sales force.



Oil injected screw  
compressors  
Gearbox driven range  
DRF & DRF IVR



- A high quality product offering you **technology you can trust**.
- Our products are **easy to use** and guarantee high **reliability**.
- Distributors are always nearby ensuring **availability** of both products and support.
- Choosing our high performance products entails a **partnership** that will boost your business.
- Safeguarding long-term productivity through optimal **serviceability** and use of original parts.



## Care. Trust. Efficiency.

### Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

### Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

### Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

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