



CENTRALINA DMC35  
DMC35 CONTROLLER

COMPRESSORE FRIGORIFERO  
REFRIGERANT COMPRESSOR



CONDENSATORE  
CONDENSER



## EFFICIENT

The PS refrigerant air dryers ensure the production of quality, clean and dry air, essential to preserve the systems and the quality of the finished product. They achieve excellent performance even in instances of unfavorable environmental conditions, and high inlet temperatures.

The highly efficient and ultra compact heat exchanger is able to operate effectively in ambient temperatures up to 45 °C, ensuring a reduced compressed air pressure drop.

## FUNCTIONAL

The electronic controller indicates the dryer operating condition (Dew Point), controls the condensate drain valve via a cyclic timer and the condenser fan via a temperature probe.

The aluminium module has a vertical flow layout ensuring the wet compressed air flows down to the automatic drain.

## ECOLOGICAL

All materials are in compliance with our environmental policy: only environmentally friendly refrigerants are used. Components conform with 2002/95/CE "RoHS" (restriction of hazardous substances) and 2002/96/CE "WEEE" (waste electrical and electronic equipment) European Directives.

Models from PS.C 4 to PS 32 are equipped with ecologic refrigerating fluid R134.a, all others use R407 C.

## CHEAP

PS dryers are sized to match standard compressor outputs. E.g. a 15 kW (20 HP) air compressor with theoretical output of 2400 l/min at 7 bar matches the PS 25 rated at 2500 l/min. It is therefore unnecessary to select a larger model: air compressor-dryer combination is tested and certified, within operating limits shown on technical features.

### How to select a suitable dryer for a given duty:

$$\text{Minimum std. air flow rate} = \frac{\text{Design air flow}}{\text{Factor (F1) x Factor (F2) x Factor (F3) x Factor (F4)}}$$

# Essiccatori a refrigerazione ad alte prestazioni

## High performance refrigerant air dryers



Il disegno esclusivo di questi essiccatori, con le cofanature di facile rimozione, è stato progettato e costruito per agevolare le operazioni di ispezione e manutenzione. Il nuovo scambiatore di calore ad alta prestazione garantisce un perfetto abbinamento alla portata standard del compressore.

La pulizia dello scaricatore di condensa non necessita di nessun utensile, grazie all'innesto rapido a baionetta.

*The unique design of these dryers, with the panels can be easily removed, has been designed and built to facilitate inspection and maintenance.*

*The new high-performance heat exchanger ensures a perfect match to the standard air flow of an air compressor.*

*The cleaning of the drain valve does not require any tools thanks to the quick bayonet.*

Foto indicativa dei modelli da PS 6 a PS 135

Indicative photo of PS 6 ÷ PS 135 models

|            | CODE    | TYPE   | CONTROLLER | Volt/Ph/Hz  | kW<br>@50Hz | kW<br>@60Hz | Amp.<br>max. | l/min. | m³/min. | c.f.m. | bar | p.s.i. | G      | L x W x H (mm)   | kg  |
|------------|---------|--------|------------|-------------|-------------|-------------|--------------|--------|---------|--------|-----|--------|--------|------------------|-----|
| GAS R134.a | 8193760 | PS 6   | DMC35      | 230/1/50-60 | 0,11        | 0,12        | 1,0          | 600    | 0,6     | 21     | 16  | 232    | 1/2"   | 360 x 430 x 770  | 16  |
|            | 8193761 | PS 9   | DMC35      | 230/1/50-60 | 0,19        | 0,21        | 1,5          | 900    | 0,9     | 32     | 16  | 232    | 1/2"   | 360 x 430 x 770  | 18  |
|            | 8193762 | PS 12  | DMC35      | 230/1/50-60 | 0,21        | 0,25        | 1,7          | 1200   | 1,2     | 42     | 16  | 232    | 1"     | 360 x 430 x 770  | 35  |
|            | 8193763 | PS 18  | DMC35      | 230/1/50-60 | 0,38        | 0,45        | 3,1          | 1800   | 1,8     | 64     | 16  | 232    | 1"     | 360 x 430 x 770  | 36  |
|            | 8193764 | PS 25  | DMC35      | 230/1/50-60 | 0,39        | 0,46        | 3,1          | 2500   | 2,5     | 88     | 16  | 232    | 1"     | 360 x 430 x 770  | 38  |
|            | 8193765 | PS 32  | DMC35      | 230/1/50    | 0,48        |             | 3,6          | 3200   | 3,2     | 113    | 16  | 232    | 1"     | 360 x 430 x 770  | 45  |
| GAS R407 C | 8193766 | PS 43  | DMC35      | 230/1/50    | 0,71        |             | 5,2          | 4300   | 4,3     | 152    | 16  | 232    | 1" 1/2 | 535 x 580 x 910  | 53  |
|            | 8193767 | PS 52  | DMC35      | 230/1/50    | 0,72        |             | 5,2          | 5200   | 5,2     | 184    | 16  | 232    | 1" 1/2 | 535 x 580 x 910  | 73  |
|            | 8193768 | PS 63  | DMC35      | 230/1/50    | 0,82        |             | 5,2          | 6300   | 6,3     | 223    | 16  | 232    | 1" 1/2 | 535 x 580 x 910  | 73  |
|            | 8193769 | PS 80  | DMC35      | 230/1/50    | 0,93        |             | 6,8          | 8000   | 8       | 283    | 16  | 232    | 1" 1/2 | 535 x 580 x 910  | 83  |
|            | 8193770 | PS 105 | DMC35      | 230/1/50    | 0,92        |             | 8,9          | 10500  | 10,5    | 371    | 16  | 232    | 1" 1/2 | 535 x 580 x 910  | 85  |
|            | 8193771 | PS 135 | DMC35      | 230/1/50    | 1,2         |             | 8,9          | 13500  | 13,5    | 477    | 16  | 232    | 2"     | 535 x 580 x 910  | 106 |
|            | 8193772 | PS 168 | DMC35      | 230/1/50    | 1,7         |             | 11,3         | 18000  | 18      | 636    | 16  | 232    | 2"     | 905 x 686 x 1077 | 123 |
|            | 8193773 | PS 190 | DMC35      | 230/1/50    | 1,8         |             | 13,8         | 19000  | 19      | 671    | 16  | 232    | 2" 1/2 | 905 x 686 x 1077 | 140 |
|            | 8193774 | PS 240 | DMC35      | 400/3/50    | 2,1         |             | 7,3          | 24000  | 24      | 848    | 16  | 232    | 2" 1/2 | 905 x 686 x 1077 | 178 |

### Fattori di correzione | Correction factors

|                                                  |             |      |             |             |      |      |      |      |
|--------------------------------------------------|-------------|------|-------------|-------------|------|------|------|------|
| Pressione   Pressure (barg)                      | 4           | 5    | 6           | 7           | 8    | 10   | 12   | 14   |
| Fattore   Factor F1                              | 0,77        | 0,86 | 0,93        | <b>1,00</b> | 1,05 | 1,14 | 1,21 | 1,27 |
| Temp. ambiente   Ambient temperature (°C)        | <=25        |      | 30          | 35          | 40   | 45   |      |      |
| Fattore   Factor F2                              | <b>1,00</b> |      | 0,95        | 0,88        | 0,79 | 0,68 |      |      |
| Temp. aria ingresso   Air inlet temperature (°C) | <=30        |      | 35          | 40          | 45   | 50   | 55   |      |
| Fattore   Factor F3                              | 1,11        |      | <b>1,00</b> | 0,81        | 0,67 | 0,55 | 0,45 |      |
| Punto di rugiada   Dew Point (°C)                | 3           |      | 5           | 7           | 10   |      |      |      |
| Fattore   Factor F4                              | <b>1,00</b> |      | 1,11        | 1,19        | 1,38 |      |      |      |



### BY-PASS

Forniti non assemblati.  
Supplied not assembled.

| CODE    | TYPE               | G      |
|---------|--------------------|--------|
| 9058346 | BY-PASS PS 6-9     | 1/2"   |
| 9058347 | BY-PASS PS 12-18   | 1"     |
| 9058348 | BY-PASS PS 25-32   | 1"     |
| 9052349 | BY-PASS PS 43      | 1" 1/2 |
| 9052350 | BY-PASS PS 52-63   | 1" 1/2 |
| 9052351 | BY-PASS PS 80-105  | 1" 1/2 |
| 9052352 | BY-PASS PS 135-168 | 2"     |
| 9052353 | BY-PASS PS 190-240 | 2" 1/2 |



Foto indicativa dei modelli da PS 168 a PS 240  
Indicative photo of PS 168 ÷ PS 240 models