

Devices, capable of dehumidify air and avoid the moistness condensation on the floor and dehumidifier-conditioners, i.e. dehumidifiers capable if necessary of lowering temperature of the treated air thanks to an innovative system.

## SERIE DRP - DRC



### MODELS:

Wall flush mounted:

**DRP 16**  
**DRP 33**  
**DRP 33 NA**  
**DRP 33 DC**

CEILING:

**DRCC 33**  
**DRCC 33 NA**  
**DRCC 33 DC**  
**DRC 66**  
**DRC 66 NA**  
**DRC 66 DC**

### APPLICATIONS:

The **DRC** and **DRP** series of dehumidifiers are used for moisture control where there is a cooling system with radiant panels.

The dehumidifiers of the series DRP and DRC have standard battery of pre-and post-cooling, dehumidifiers are isothermal.

The NA version is a normal dehumidifier that works without connecting to the chilled water circuit.

The DC version can also work in cooling mode always combined with the dehumidification in order to ensure optimum control of temperature also.

The devices are particularly quiet, ducted versions are provided of the intake and discharge and delivery plenums.



NEW HOME



APARTMENTS



OFFICES

**DATA SHEET - MODEL DRP WALL FLUSH MOUNTED**

| Modello                                                                                | DRP16                 | DRP33                 | DRP33NA               | DRP33DC               |
|----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Rated Average Power Consumption<br>(at 25°C, 60% R.H. - water 16°C)                    | 230 W                 | 390 W                 | 390 W                 | 390 W                 |
| Max Power Consumption (at 32°C, 95% R.H.)                                              | 310 W                 | 450 W                 | 450 W                 | 450 W                 |
| Absorbed Current (at 35°C, 95% R.H.) F.L.A.                                            | 1,8 A                 | 3 A                   | 3 A                   | 3 A                   |
| Locked Rotor Current L.R.A.                                                            | 13,0 A                | 19,5 A                | 19,5 A                | 19,5 A                |
| Air Flow (with clean air filter)                                                       | 230 m <sup>3</sup> /h | 320 m <sup>3</sup> /h | 300 m <sup>3</sup> /h | 320 m <sup>3</sup> /h |
| Range air flow                                                                         |                       | 240 ÷ 360<br>mc/h     | 300 ÷ 360<br>mc/h     | 240 ÷ 360<br>mc/h     |
| Suond Pressure Level (at 3 mts in free field)                                          | 33 db(A)              | 34 db(A)              | 34 db(A)              | 38 db(A)              |
| Refrigerant                                                                            | R134a                 | R134a                 | R134a                 | R134a                 |
| Attacks water IN / OUT                                                                 | 1"                    | 1"                    | -                     | 1"                    |
| Condensed Draining Pipe Connection for rubber pipe diam.                               | 16 mm                 | 16mm                  | 16 mm                 | 16mm                  |
| Functioning Temperature Range                                                          | 10°- 33°C             | 10°- 33°C             | 10°- 33°C             | 10°- 33°C             |
| Functioning Relative Humidity Range                                                    | 45% - 98%             | 45% - 98%             | 50% - 98%             | 45% - 98%             |
| Total cooling capacity in operation `cooling_<br>(25°C - 65% U.R. - acqua 16/18°C)     | -                     | -                     | -                     | 1,62 kW               |
| cooling capacity sensible in operation. `cooling_<br>(25°C - 65% U.R. - water 16/18°C) | -                     | -                     | -                     | 0,98 kW               |
| Cooling water flow<br>(inlet temperature 16°C)                                         | 75 l/h                | 175 l/h               | -                     | 255 l/h               |
| Head pressare drop of water cooling coil (inlet temp. 16°C)                            | 0,07 bar              | 0,13 bar              |                       | 0,26 bar              |

**CONDENSED WATER AT DIFFERENT AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS**

| Model          | With water<br>In/Out | 23°C 55% | 23°C 65% | 25°C 55% | 25°C 65% | 27°C 65% | 30°C 80% |
|----------------|----------------------|----------|----------|----------|----------|----------|----------|
| <b>DRP16</b>   | 16°C/18°C            | 7        | 9        | 8,5      | 9,5      | 11       | 16       |
| <b>DRP33</b>   | 16°C/18°C            | 13,5     | 18,5     | 15,5     | 21,5     | 25,5     | 33       |
|                | 18°C/20°C            | 10,5     | 15,5     | 12,5     | 17,5     | 21,5     | 30       |
| <b>DRP33NA</b> | -                    | 10,5     | 12,5     | 11,5     | 13,5     | 14,5     | 25       |
| <b>DRP33DC</b> | 16°C/18°C            | 13,5     | 18,5     | 15,5     | 21,5     | 25,5     | 33       |
|                | 18°C/20°C            | 10,5     | 15,5     | 12,5     | 17,5     | 21,5     | 30       |

**DIMENSIONS AND WEIGHT - - MODEL DRP WALL FLUSH MOUNTED**

| Model                           | DRP16 | DRP33 | DRP33NA | DRP33DC |
|---------------------------------|-------|-------|---------|---------|
| <b>Width</b> (mm)               | 408   | 713   | 713     | 713     |
| <b>Depth</b> (mm)               | 203   | 204   | 204     | 204     |
| <b>Height</b> (mm)              | 625   | 697   | 697     | 697     |
| <b>Weight</b> (including frame) | 27 Kg | 33 Kg | 33 Kg   | 33 Kg   |

## ACCESSORIES - MODEL DRP WALL FLUSH MOUNTED

| Model                                               | DRP16 | DRP33 | DRP33NA | DRP33DC |
|-----------------------------------------------------|-------|-------|---------|---------|
| Dehumidistat on machine                             | o     | o     | o       | o       |
| Mechanical wall dehumidistat                        | o     | o     | o       | o       |
| Electronic wall dehumidistat                        | o     | o     | o       | o       |
| Double galvanized steel case for flush mounting     | •     | •     | •       | •       |
| Front grille available in lacquered or natural wood | o     | o     | o       | o       |
| Cabinet lacquered wood                              |       | o     | o       | o       |
| Electronic wall thermostat                          |       |       |         | o       |
| Thermostat for overtemperature                      |       |       |         | o       |
| High pressure devices                               |       |       |         | •       |

• standard    o optional    x no available

## FEATURES - MODEL DRP WALL FLUSH MOUNTED

### STRUCTURE

Dehumidifiers serious DRP consist of a body made of hot galvanized steel with removable panels for easy inspection and maintenance.

The frame is pre-assembled, has brackets for fixing to the masonry.

### COMPRESSOR

The compressor is of type alternative hermetic, with the thermal protection device and acoustic insulation, is mounted on vibration dampers to reduce the vibrations.

### REFRIGERANT CIRCUIT

Consisting of evaporator and condenser with copper pipes and aluminum fins 2.8 mm step. The cooling circuit is hermetically sealed.

Capillary, filter drier in silica gel, high pressure (deu-climate version only)

### FAN MOTOR

The fan inside the model DRP16 is axial type of thermoplastic material, a low-noise.

The fan inside the model DRP33 is centrifugal type impeller with d. 144 mm. Fan Motor with capacitor and switch to 6 speed.

### AIR FILTER

Made of synthetic material made of polypropylene, the air filter is washable and easy to replace. It is mounted on wooden grid.

### MICROPROCESSOR

Performs defrost control, the delay of the compressor and manages alarms through electronic control (deu-climate version)

### PROTECTIVE EQUIPMENT

Low water pressure switch, breaking and fans (deu-climate version only)

### CONDENSATE COLLECTION TRAY

Thermoformed plastic PST.

### TESTING

Tests are carried out leaks in the circuit, testing and functional testing of electric shock.

### TECHNICAL REFERENCE

This dehumidifier meets the essential requirements contained in the European Community Directive 2006/95/EC of 12 December 2006 on the safety of electrical products for use in low voltage, 2004/108/EC of 15 December 2004 relating to Electromagnetic Compatibility, 2006 / 42/CE of 17 May 2006 on the safety of machinery.

Conformity is declared with reference to the following harmonized standards:

CEI-EN 60335-2-40, IEC-EN 55014-1, CEI-EN 55014-2.

It also states that the product is manufactured in compliance with RoHS Directive 2002/95/EC or in force, enforced by the Legislative Decree 151 July 25, 2005 (Article 5)

**DATA SHEET - MODEL DRC DEHUMIDIFIER & COOLER TO CEILING**

| Modello                                                                                | DRCC33         | DRCC33NA       | DRCC33DC       | DRC66          | DRC66NA        | DRC66DC        |
|----------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Rated Average Power Consumption<br>(at 25°C, 60% R.H. - water 16°C)                    | 400 W          | 400 W          | 400 W          | 790 W          | 840 W          | 790 W          |
| Max Power Consumption<br>(at 32°C, 95% R.H.)                                           | 460 W          | 460 W          | 460 W          | 890 W          | 890 W          | 890 W          |
| Absorbed Current<br>(at 35°C, 95% R.H.) F.L.A.                                         | 3,0 A          | 3,0 A          | 3,0 A          | 4,9 A          | 5,2 A          | 4,9 A          |
| Locked Rotor Current L.R.A.                                                            | 20,0 A         | 20,0 A         | 20,0 A         | 30 A           | 30 A           | 30 A           |
| Air Flow (with clean air filter)                                                       | 320 m³/h       | 320 m³/h       | 320 m³/h       | 560 m³/h       | 560 m³/h       | 560 m³/h       |
| Range air flow                                                                         | 240 ÷ 360 mc/h | 300 ÷ 360 mc/h | 240 ÷ 360 mc/h | 500 ÷ 680 mc/h | 550 ÷ 680 mc/h | 500 ÷ 680 mc/h |
| Static pressure available                                                              | 52 ÷ 22 Pa     | 40 ÷ 22 Pa     | 52 ÷ 22 Pa     | 56 ÷ 22 Pa     | 46 ÷ 22 Pa     | 56 ÷ 22 Pa     |
| Suond Pressure Level<br>(at 3 mts in free field)                                       | 38 db(A)       | 38 db(A)       | 38 db(A)       | 40 db(A)       | 40 db(A)       | 42 db(A)       |
| Refrigerant                                                                            | R134a          | R134a          | R134a          | R134a          | R134a          | R134a          |
| Attacks water IN / OUT                                                                 | 1"             | 1"             | 1"             | 1/2"           | -              | 1/2"           |
| Condensed Draining Pipe                                                                | 16 mm          | 16mm           | 16mm           | 16mm           | 16 mm          | 16 mm          |
| Functioning Temperature Range                                                          | 10°-33°C       | 10°-33°C       | 10°-33°C       | 10°-33°C       | 10°-33°C       | 10°-33°C       |
| Functioning Relative Humidity Range                                                    | 45%-98%        | 50%-98%        | 45%-98%        | 40%-95%        | 45%-95%        | 40%-95%        |
| Total cooling capacity in operation `cooling`<br>(25°C - 65% U.R. - water 16/18°C)     | -              | -              | 1,6 kW         | -              |                | 3,2 kW         |
| cooling capacity sensible in operation. `cooling`<br>(25°C - 65% U.R. - water 16/18°C) | -              | -              | 0,96 kW        | -              |                | 2,0 kW         |
| Cooling water flow<br>(inlet temp. 16°C)                                               | 175 l/h        | -              | 255 l/h        | 360 l/h        |                | 790 W          |
| Head pressare drop of water<br>cooling coil (inlet temp. 16°C)                         | 0,13 bar       | -              | 0,26 bar       | 25 kPa         |                | 890 W          |

**CONDENSED WATER AT DIFFERENT AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS**

(Lt/24h)

| Model           | With water In/Out | 23°C 55% | 23°C 65% | 25°C 55% | 25°C 65% | 27°C 65% | 30°C 80% |
|-----------------|-------------------|----------|----------|----------|----------|----------|----------|
| <b>DRCC33</b>   | 16°C/18°C         | 13,5     | 18,5     | 15,5     | 21,5     | 25,5     | 33       |
|                 | 18°C/20°C         | 10,5     | 15,5     | 12,5     | 17,5     | 21,5     | 30       |
| <b>DRCC33NA</b> | -                 | 10,5     | 12,5     | 11,5     | 13,5     | 14,5     | 25       |
| <b>DRCC33DC</b> | 16°C/18°C         | 13,5     | 18,5     | 15,5     | 21,5     | 25,5     | 33       |
|                 | 18°C/20°C         | 10,5     | 15,5     | 12,5     | 17,5     | 21,5     | 30       |
| <b>DRC66</b>    | 16°C/18°C         | 28       | 38       | 32       | 44       | 52       | 68       |
|                 | 18°C/20°C         | 22       | 32       | 26       | 36       | 44       | 62       |
| <b>DRC66NA</b>  | -                 | 22       | 26       | 24       | 28       | 30       | 52       |
| <b>DRC66DC</b>  | 16°C/18°C         | 28       | 38       | 32       | 44       | 52       | 68       |
|                 | 18°C/20°C         | 22       | 32       | 26       | 36       | 44       | 62       |

## DIMENSIONS AND WEIGHT - - MODEL DRC DEHUMIDIFIER & COOLER TO CEILING

| Modello            | DRCC33 | DRCC33NA | DRCC33DC | DRC66 | DRC66NA | DRC66DC |
|--------------------|--------|----------|----------|-------|---------|---------|
| <b>Width</b> (mm)  | 652    | 652      | 652      | 936   | 936     | 936     |
| <b>Depth</b> (mm)  | 260    | 260      | 260      | 309   | 309     | 309     |
| <b>Height</b> (mm) | 662    | 662      | 662      | 708   | 708     | 708     |
| <b>Weight</b>      | 33 Kg  | 33 Kg    | 33 Kg    | 52 Kg | 52 Kg   | 52 Kg   |

## ACCESSORIES - MODEL DRC DEHUMIDIFIER & COOLER TO CEILING

| Model                          | DRCC33 | DRCC33NA | DRCC33DC | DRC66 | DRC66NA | DRC66DC |
|--------------------------------|--------|----------|----------|-------|---------|---------|
| Dehumidistat on machine        | o      | o        | o        | o     | o       | o       |
| Mechanical Dehumidistat wall   | o      | o        | o        | o     | o       | o       |
| Electronic Dehumidistat wall   | o      | o        | o        | o     | o       | o       |
| Electronic thermostat wall     | -      | -        | o        | -     | -       | o       |
| thermostat for overtemperature | -      | -        | o        | -     | -       | o       |
| Silencers                      | o      | o        | o        | o     | o       | o       |
| Plenum                         | o      | o        | o        | o     | o       | o       |
| High pressure devices          |        |          | •        |       |         | •       |

• standard      o optional      x no available

## FEATURES - MODEL DRC DEHUMIDIFIER & COOLER TO CEILING

### STRUCTURE

Dehumidifiers serious DRC consist of a body made of hot galvanized steel with removable panels for easy inspection and maintenance.

The frame is pre-assembled, has brackets for fixing to the masonry.

### COMPRESSOR

I the compressor is of type alternative hermetic , with the thermal protection device and acoustic insulation, is mounted on vibration dampers to reduce the vibrations.

### REFRIGERANT CIRCUIT

Consisting of evaporator and condenser with copper pipes and aluminum fins 2.8 mm step. The cooling circuit is hermetically sealed.

Capillary, filter drier in silica gel, high pressure (deu-climate version only)

### MICROPROCESSOR

Performs defrost control, the delay of the compressor and manages alarms through electronic control (deu-climate version)

### PROTECTIVE EQUIPMENT

Low water pressure switch, breaking and fans (deu-climate version only)

### CONDENSATE COLLECTION TRAY

INOX STEEL AISI 304

### TESTING

Tests are carried out leaks in the circuit, testing and functional testing of electric shock.

**FAN MOTOR**

The fan inside the model DRC is centrifugal type impeller with d. 144 mm. Fan Motor with capacitor and switch to 6 speed.

**AIR FILTER**

Made of synthetic material made of polypropylene, the air filter is washable and easy to replace. It is mounted on wooden grid.

**TECHNICAL REFERENCE**

This dehumidifier meets the essential requirements contained in the European Community Directive 2006/95/EC of 12 December 2006 on the safety of electrical products for use in low voltage, 2004/108/EC of 15 December 2004 relating to Electromagnetic Compatibility, 2006 / 42/CE of 17 May 2006 on the safety of machinery.

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