

DFLOW series

Dehumidifiers
for low dew point
applications

An ideal solution for the production
of lithium batteries and the other products
which are sensitive to humidity.





Excellent low dew point performance **with low energy consumption**

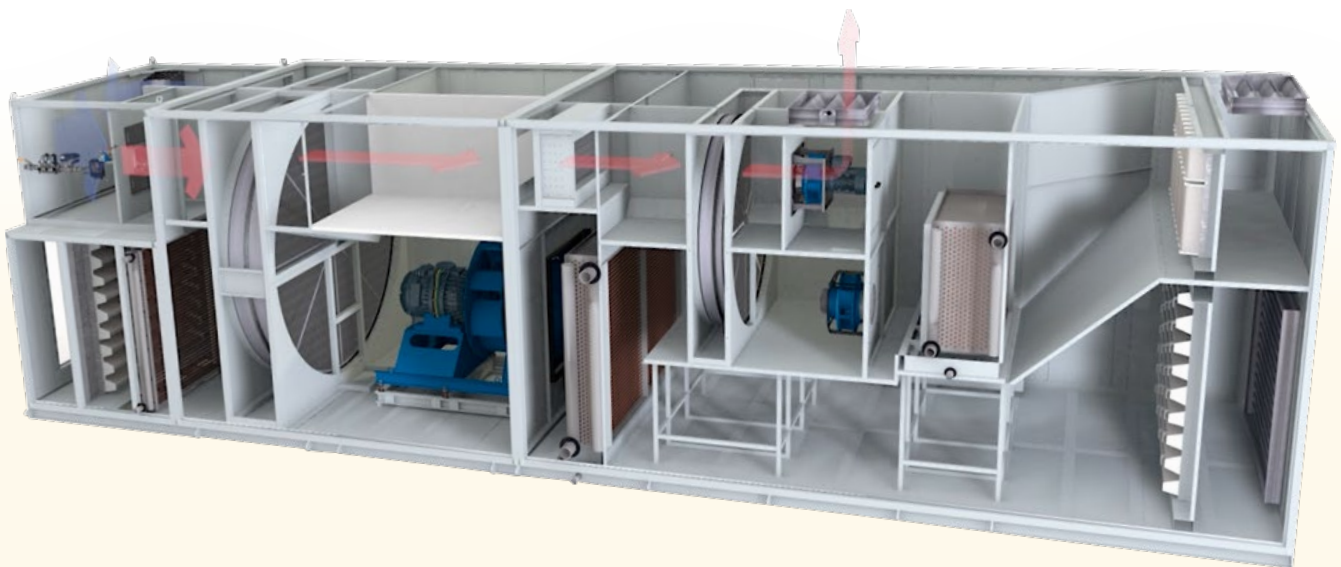
DFLOW Air Dehumidifiers for very low dew points

Since 2012, Fisair has been developing, manufacturing and maintaining low dew point systems aimed at industrial processes where low humidity is not enough and special systems are required to control the air condition below dew points from -30 to -70CDP in the room.

With this evolution, Fisair presents the range best suited to the needs of research centres, laboratories or large

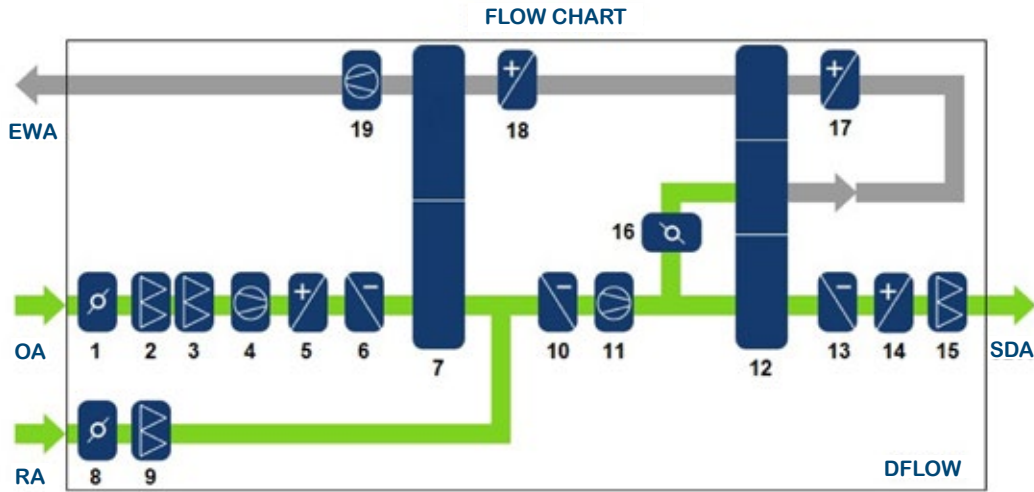
industries. In these rooms, energy consumption and process reliability are key to the success of the project. The DFLOW range is designed precisely for adapting these key factors. With its double rotor system and heat recovery, the process will be up and running in a very short time and will be stable throughout its operating life.

DFLOW Series



Laboratories and cleanrooms

Lithium battery manufacturing



OA = Outdoor Air
RA = Return Air
SDA = Supply Dry Air
EWA = Exhaust Wet Air

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|-------------------------|----------------------|----------------------------------|
| ① Outdoor Air Damper | ⑧ Return Air Damper | ⑭ HW Coil 2 |
| ② ③ Outdoor Air Filters | ⑨ Return Air Filters | ⑮ Supply Air Filters |
| ④ Process Fan 1 | ⑩ CW Coil 2 | ⑯ Reactivation Air Damper |
| ⑤ HW Coil 1 (Anti-ice) | ⑪ Process Fan 2 | ⑰ Reactivation System 1 (Step 2) |
| ⑥ CW Coil 1 | ⑫ Rotor Step 2 | ⑱ Reactivation System 2 (Step 1) |
| ⑦ Rotor Step 1 | ⑬ CW Coil 3 | ⑲ Reactivation Fan |

CONSTRUCTIVE CHARACTERISTICS DFLOW SERIES



- **Coated steel casing to protect against corrosion** and allow frequent cleaning. Level L1/CL1 air tightness according to EN1886/AHRI1350.
- **Double rotor to use the residual heat** of the main rotor in the secondary rotor.
- **Dedicated rotor for external air drying** for fast start-up and absolute stability even during the high load periods.
- **Heat recovery system** by the main rotor purge.



- **Fast construction using prefabricated modules** for short delivery time.
- **Plug fans with maximum efficiency motors** and minimum SFP factor.
- **Fully modular, multi-source reactivation systems.** Possibility of combining these sources for maximum usage of waste heat in the installation.
- **Control panel with BMS communication and graphic touch screens** showing the status of each point. Remote communication option via Connect 360.

MAIN ADVANTAGES DFLOW SERIES

- Low energy consumption
- Faster time to reach the set point
- High stability
- Fast delivery time
- Easy assembly
- Available in CE and UL/CSA
- Competitive pricing





DFLOW Series technical data



Models, Dimensions, Weight & Airflow

Models	Aprox. Max. Dimensions W x H x L (ft)	Aprox. Max. Weight (lb)	Airflow min. - max. (CFM)
DFLOW 003...016 A/B/C/D 016 D	6 x 6 x 43	9700	3531-7063
DFLOW 003...021 A/B/C/D 021 D	7 x 7 x 43	9259	4414-8828
DFLOW 003...025 A/B/C/D 025 D	7 x 7 x 43	14219	5591-11477
DFLOW 003...035 A/B/C/D 035 D	8 x 8 x 43	17085	7063-14126
DFLOW 003...044 A/B/C/D 044 D	9 x 9 x 43	20943	9123-18246
DFLOW 003...053 A/B/C/D 053 D	10 x 10 x 43	25353	11183-22660
DFLOW 003...062 A/B/C/D 062 D	10 x 10 x 43	29101	13243-26486
DFLOW 003...076 A/B/C/D 076 D	11 x 11 x 43	31967	16480-32960

REFERENCES: CIC Energigune | UK BIC | Porsche | Solvay | Eli Lilly | Rivian

service and warranty

Fisair has a worldwide network of qualified engineers, designers and experts, all available to back up our **standard 2-year or extended 5-year warranty.**

