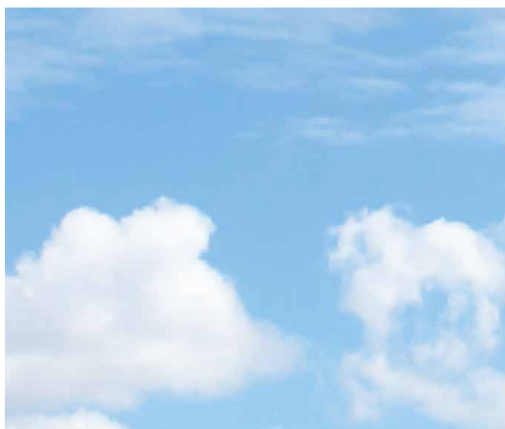


Climate to perform



TET
DRY AIR SOLUTIONS



AIRDRY

Adsorption Dehumidifier



MODELS
AD150-300-450-600E

TFT Dry Air Solutions
TECNORFRIGO TUSCANY s.r.l.

Via J.F.Kennedy, 25/27/29
Z.Ind. "Fontanelle" Capanne
56020 Montopoli Val D'Arno (PI)

T. + 39 0571 467351 F. +39 0571 469217

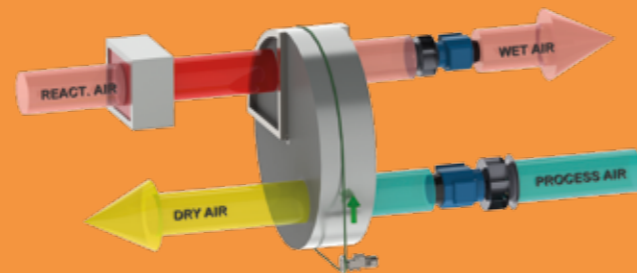
info@tftdryair.com - www.tftdryair.com





TECHNOLOGY

The system AIRDRY allows the absorption of moisture by means of a rotor made of composite material hygroscopic fiber with diameter ≥ 6 microns, therefore not inhalable from human being, on which are fixed permanently absorbent elements. Silica gel 82%, 2% acrylic surface with strength ≥ 200 kPa from every direction, pore area $600 \text{ m}^2/\text{g}$. The rotor has a contact surface with a very large exchange surface equal to $3.000 \text{ m}^2/\text{m}^3$ of rotor, with a structure that allows a laminar regime of the flow of air to be dehumidified. This material absorbs moisture from the air that must be treated, eliminating it thanks to a stream of hot air flowing through the regeneration zone (there's not water of condensation in the expulsion process), then discharging it to the outside. Furthermore, in case of necessity, the rotor AIRDRY can be washed without this altering its characteristics.



APPLICATIONS

The AD range of products is suitable to ensure the dehumidification even in extreme conditions (-20°C to $+40^\circ\text{C}$) obtaining dew points up to -60°C tdp and where the dehumidification process must be continuous and controlled.

SOME FEATURES

Rotor Technology AIRDRY is patented. (Sweden - No 513,238) - (U.S. - No US6265030 B1)

- The rotor material is certified non-flammable (Report Intertek Testing Service INC. In Accordance with ASTM E84-97th: Flame spread index = 0; Smoke index = 0)
- The Series-AIRDRY is equipped with electric regeneration with electric heaters PTC (Positive Temperature Cut out) that allow use even safer by preventing the machine from overheating.
- For size 3000 to 5000 battery steam is a standard installation.
- Filters and Regeneration Process classification (EN779: 2002) G3 - average 89.8% gravimetric efficiency
- Paneling standard AluZink® pre-painted with isolament thermal and acoustic 25 mm, AISI 304 version (option)
- Electrical panel completely isolated, IP54 protection - with cooling fans.
- Digital display air temperature regeneration - Providing housing digital humidistat with probe% RH
- by channel and / or setting range 10 to 90% - 0 to 100% (option)
- Plug fans for maximum efficiency and reduced maintenance

ACCESSORIES AND VERSIONS AVAILABLE

| | |
|--------------------------------|--------------------------|
| PPS - SILICA GEL (STANDARD) | PPH - HYGIENIC (OPTION) |
| PPM - MOLECULAR SIEVE (OPTION) | PPH - High "Δx" (OPTION) |

· Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.

TECHNICAL DATA AND PERFORMANCES

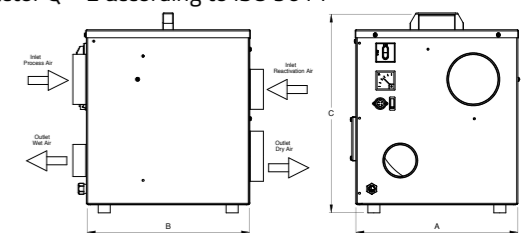
| AD | | 150 | 300 | 450 | 600 |
|-----------------------------------|-----------------------|------------------------|----------|----------|------------|
| Performance | | | | | |
| Drying capacity (*) | Kg/h | 1,54 | 2,24 | 4,51 | 6,31 |
| Process fan | | | | | |
| Nominal air flow | m^3/h | 150 | 300 | 450 | 600 |
| Static pressure | Pa | 100 | 120 | 150 | 120 |
| Nominal electric power fan | W | 60 | 60 | 140 | 140 |
| Reactivation fan | | | | | |
| Nominal air flow | m^3/h | 50 | 100 | 150 | 200 |
| Static pressure | Pa | 100 | 100 | 50 | 100 |
| Nominal electric power fan | W | 85 | 85 | 170 | 170 |
| Motordrive | | | | | |
| Nominal electric power | W | 3,7 | 3,7 | 3,7 | 3,7 |
| Reactivation | | | | | |
| Reactivation type | | Electric | Electric | Electric | Electric |
| Installed electric power | kW | 1,4 | 2,1 | 4,2 | 6 |
| Electrical Characteristics | | | | | |
| Max electric power absorbed | kW | 1,54 | 2,24 | 4,51 | 6,31 |
| Max electrical current absorbed | A | 7 | 10 | 20 | 10 |
| Power supply | Volt/Ph/Hz | 230 / 1 / 50 $\pm 5\%$ | | | 400/3+N/50 |
| Auxiliary power supply | Volt/Ph/Hz | 230 / 1 / 50 $\pm 5\%$ | | | |
| Enviromental Noise | | | | | |
| Total sound pressure (**) | dB(a) | 42 | 42 | 44 | 44 |
| Total sound power (**) | dB | 70 | 70 | 72 | 72 |
| Connections | | | | | |
| Inlet Process Air | ϕ mm | 125 | 160 | 160 | 200 |
| Outlet Dry Air | ϕ mm | 100 | 160 | 160 | 200 |
| Inlet Reactivation Air | ϕ mm | 100 | 125 | 125 | 160 |
| Outlet Wet Air | ϕ mm | 80 | 100 | 100 | 125 |
| DIMENSIONS | | | | | |
| A | mm | 335 | 415 | 570 | 570 |
| B | mm | 375 | 415 | 510 | 510 |
| C | mm | 420 | 500 | 510 | 480 |
| Weight | kg | 17 | 21 | 25 | 55 |

* The conditions of 20°C 60% RH

** Sound pressure level calculated in free field, 10 meters from the unit, directional factor $Q = 2$ according to ISO 9614

Note:

Returns for different thermo-hygrometric conditions - contact TFT srl.



AIRDRY

AD150-300-450-600E



AIRDRY

Dehumidifiers



MODELS
ADS150-300E

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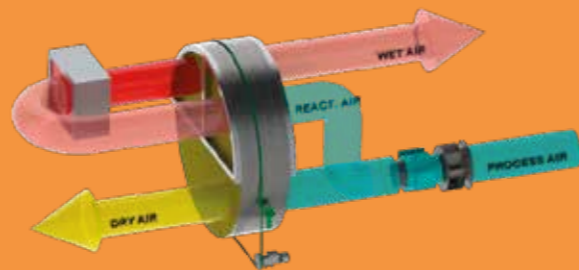
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TECHNOLOGY

The system AIRDRY allows the absorption of moisture by means of a rotor made of composite material hygroscopic fiber with diameter ≥ 6 microns, therefore not inhalable from human being, on which are fixed permanently absorbent elements. Silica gel 82%, 2% acrylic surface with strength ≥ 200 kPa from every direction, pore area 600 m²/g. The rotor has a contact surface with a very large exchange surface equal to 3.000 m²/m³ of rotor, with a structure that allows a laminar regime of the flow of air to be dehumidified. This material absorbs moisture from the air that must be treated, eliminating it thanks to a stream of hot air flowing through the regeneration zone (there's not water of condensation in the expulsion process), then discharging it to the outside. Furthermore, in case of necessity, the rotor AIRDRY can be washed without this altering its characteristics.



APPLICATIONS

The AD range of products is suitable to ensure the dehumidification even in extreme conditions (-20°C to +40°C) obtaining dew points up to -60°C tdp and where the dehumidification process must be continuous and controlled.

SOME FEATURES

Rotor Technology AIRDRY is patented. (Sweden - No 513,238) - (U.S. - No US6265030 B1)

- The rotor material is certified non-flammable (Report Intertek Testing Service INC. In Accordance with ASTM E84-97th: Flame spread index = 0; Smoke index = 0)
- The Series-AIRDRY is equipped with electric regeneration with electric heaters PTC (Positive Temperature Cut out) that allow use even safer by preventing the machine from overheating.
- Filters and Regeneration Process classification (EN779: 2002) G3 - average 89.8% gravimetric efficiency
- Paneling standard AluZink® pre-painted with isolament thermal and acoustic 25 mm, AISI 304 version (option)
- Electrical panel completely isolated, IP54 protection - with cooling fans.
- Digital display air temperature regeneration - Providing housing digital humidistat with probe% RH
- by channel and / or setting range 10 to 90% - 0 to 100% (option)
- Plug fans for maximum efficiency and reduced maintenance

ACCESSORIES AND VERSIONS AVAILABLE

| | |
|--------------------------------|--------------------------|
| PPS - SILICA GEL (STANDARD) | PPH - HYGIENIC (OPTION) |
| PPM - MOLECULAR SIEVE (OPTION) | PPH - High "Δx" (option) |

· Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.

TECHNICAL DATA AND PERFORMANCES

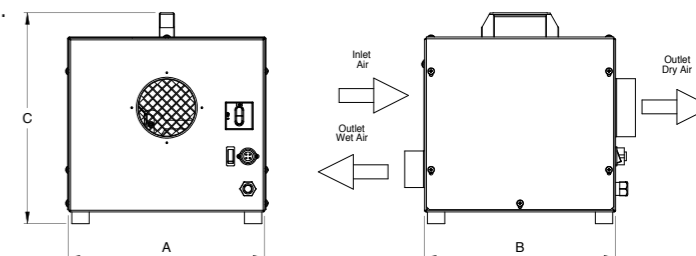
| ADS | | 150 | 300 |
|-----------------------------------|-------------------|------------------|----------|
| Performance | | | |
| Drying capacity (*) | Kg/h | 0,57 | 1,1 |
| Process fan | | | |
| Nominal air flow process | m ³ /h | 150 | 300 |
| Static pressure | Pa | 100 | 150 |
| Nominal electric power fan | W | 52 | 102 |
| Nominal air flow reactivation | m ³ /h | 50 | 100 |
| Static pressure | Pa | 100 | 150 |
| Motordrive | | | |
| Nominal electric power | W | 3,7 | 3,7 |
| Reactivation | | | |
| Reactivation type | | Electric | Electric |
| Installed electric power | kW | 0,7 | 1,4 |
| Electrical Characteristics | | | |
| Max electric power absorbed | kW | 0,76 | 1,51 |
| Max electrical current absorbed | A | 4 | 7 |
| Power supply | Volt/Ph/Hz | 230 / 1 / 50 ±5% | |
| Auxiliary power supply | Volt/Ph/Hz | 230 / 1 / 50 ±5% | |
| Enviromental Noise | | | |
| Total sound pressure (**) | dB(a) | 42 | 42 |
| Total sound power (**) | dB | 70 | 70 |
| Connections | | | |
| Inlet Air | mm | 130x130 | 130x130 |
| Outlet Dry Air | ∅ mm | 100 | 160 |
| Outlet Wet Air | ∅ mm | 63 | 80 |
| DIMENSIONS | | | |
| A | mm | 345 | 425 |
| B | mm | 330 | 380 |
| C | mm | 365 | 445 |
| Weight | kg | 12 | 16 |

* The conditions of 20°C 60% RH

** Sound pressure level calculated in free field, 10 meters from the unit, directional factor Q = 2 according to ISO 9614

Note:

Returns for different thermo-hygrometric conditions - contact TFT srl.



AIRDRY

ADS150-300E



AIRDRY

Adsorption Dehumidifier



MODELS
AD400-620-800E

TFT Dry Air Solutions
TECNORFRIGO TUSCANY s.r.l.

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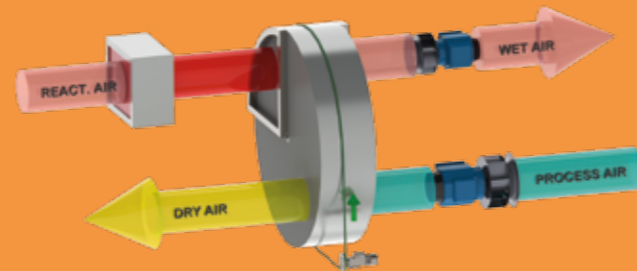
info@tftdryair.com - www.tftdryair.com





TECHNOLOGY

The system AIRDRY allows the absorption of moisture by means of a rotor made of composite material hygroscopic fiber with diameter ≥ 6 microns, therefore not inhalable from human being, on which are fixed permanently absorbent elements. Silica gel 82%, 2% acrylic surface with strength ≥ 200 kPa from every direction, pore area $600 \text{ m}^2/\text{g}$. The rotor has a contact surface with a very large **exchange surface equal to $3.000 \text{ m}^2/\text{m}^3$ of rotor**, with a structure that allows a laminar regime of the flow of air to be dehumidified. This material **absorbs moisture from the air** that must be treated, eliminating it thanks to a stream of hot air flowing through the regeneration zone (there's not water of condensation in the expulsion process), **then discharging it to the outside**. Furthermore, in case of necessity, **the rotor AIRDRY can be washed without this altering its characteristics**.



APPLICATIONS

The AD range of products is suitable to ensure the dehumidification **even in extreme conditions** (-20°C to $+40^\circ\text{C}$) obtaining dew points up to -60°C tdp and where the dehumidification process must be continuous and controlled.

SOME FEATURES

Rotor Technology AIRDRY is patented. (Sweden - No 513,238) - (U.S. - No US6265030 B1)

- The rotor material is certified non-flammable (Report Intertek Testing Service INC. In Accordance with ASTM E84-97th: Flame spread index = 0; Smoke index = 0)
- The Series-AIRDRY is equipped with electric regeneration with electric heaters PTC (Positive Temperature Cut out) that allow use even safer by preventing the machine from overheating. For size 3000 to 5000 battery steam is a standard installation.
- Filters and Regeneration Process classification (EN779: 2002) G3 - average 89.8% gravimetric efficiency
- Paneling standard AluZink® pre-painted with isolament thermal and acoustic 25 mm, AISI 304 version (option)
- Electrical panel completely isolated, IP54 protection - with cooling fans.
- Digital display air temperature regeneration - Providing housing digital humidistat with probe% RH
- by channel and / or setting range 10 to 90% - 0 to 100% (option)
- Plug fans** for maximum efficiency and reduced maintenance

ACCESSORIES AND VERSIONS AVAILABLE

| | |
|--------------------------------|--------------------------|
| PPS - SILICA GEL (STANDARD) | PPH - HYGIENIC (OPTION) |
| PPM - MOLECULAR SIEVE (OPTION) | PPH - High "Δx" (OPTION) |

- Heat Recovery Systems capable of recovering up to 70% of the heat generated by the machine to re-enter the cycle of operation.
- Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.
- Pre-cooling and post-cooling treatments available as option just in version AD800E.

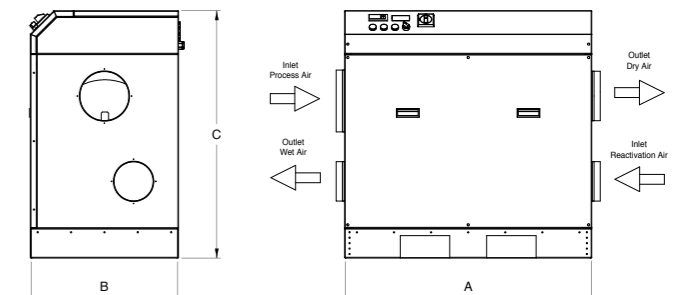
TECHNICAL DATA AND PERFORMANCES

| AD | | 400 | 620 | 800 |
|-----------------------------------|-----------------------|------------------------|----------|----------|
| Performance | | | | |
| Drying capacity (*) | Kg/h | 3,2 | 4,2 | 4,9 |
| Process fan | | | | |
| Nominal air flow | m^3/h | 400 | 620 | 800 |
| Static pressure | Pa | 250 | 250 | 200 |
| Nominal electric power fan | W | 170 | 170 | 170 |
| Reactivation fan | | | | |
| Nominal air flow | m^3/h | 140 | 200 | 250 |
| Static pressure | Pa | 180 | 150 | 120 |
| Nominal electric power fan | W | 85 | 85 | 85 |
| Motordrive | | | | |
| Nominal electric power | W | 11 | 11 | 11 |
| Reactivation | | | | |
| Reactivation type | | Electric | Electric | Electric |
| Installed electric power | KW | 4,2 | 5,6 | 6,6 |
| Temperature increase | $^\circ\text{C}$ | 100 | 100 | 100 |
| Electrical Characteristics | | | | |
| Max electric power absorbed | KW | 4,46 | 5,86 | 6,86 |
| Max electrical current absorbed | A | 7 | 9 | 11 |
| Power supply | Volt/Ph/Hz | 400 / 3 / 50 $\pm 5\%$ | | |
| Auxiliary power supply | Volt/Ph/Hz | 24 / 1 / 50 $\pm 5\%$ | | |
| Enviromental Noise | | | | |
| Total sound pressure (**) | dB(a) | 58 | 60 | 65 |
| Total sound power (**) | dB | 86 | 88 | 93 |
| DIMENSIONS | | | | |
| A | mm | 1000 | 1000 | 1000 |
| B | mm | 600 | 600 | 600 |
| C | mm | 1000 | 1000 | 1000 |
| Weight | kg | 145 | 145 | 145 |

* The conditions of 20°C 60% RH

** Sound pressure level calculated in free field, 10 meters from the unit, directional factor $Q = 2$ according to ISO 9614

Note: Returns for different thermo-hygrometric conditions - contact TFT srl.





AIRDRY

Adsorption Dehumidifier



MODELS

AD1000-1500-2000

2500-2900-3400

TFT Dry Air Solutions
TECNORFRIGO TUSCANY s.r.l.

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Z.Ind. "Fontanelle" Capanne
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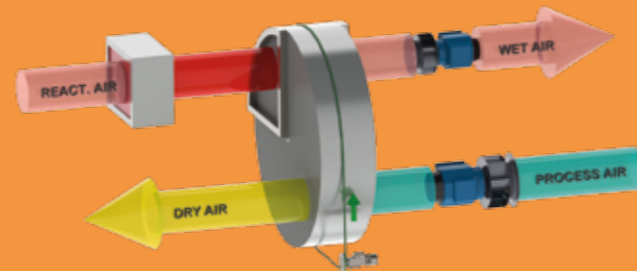
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TECHNOLOGY

The system AIRDRY allows the absorption of moisture by means of a rotor made of composite material hygroscopic fiber with diameter ≥ 6 microns, therefore not inhalable from human being, on which are fixed permanently absorbent elements. Silica gel 82%, 2% acrylic surface with strength ≥ 200 kPa from every direction, pore area $600 \text{ m}^2/\text{g}$. The rotor has a contact surface with a very large exchange surface equal to $3.000 \text{ m}^2/\text{m}^3$ of rotor, with a structure that allows a laminar regime of the flow of air to be dehumidified. This material absorbs moisture from the air that must be treated, eliminating it thanks to a stream of hot air flowing through the regeneration zone (there's not water of condensation in the expulsion process), then discharging it to the outside. Furthermore, in case of necessity, the rotor AIRDRY can be washed without this altering its characteristics.



APPLICATIONS

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SOME FEATURES

Rotor Technology AIRDRY is patented. (Sweden - No 513,238) - (U.S. - No US6265030 B1)

The rotor material is certified non-flammable (Report Intertek Testing Service INC. In Accordance with ASTM E84-97th: Flame spread index = 0; Smoke index = 0)

The Series-AIRDRY is equipped with electric regeneration with electric heaters PTC (Positive Temperature Cut out) that allow use even safer by preventing the machine from overheating. For sizes 1500 and 2000 battery steam 440 kPa (option)

Filters and Regeneration Process classification (EN779: 2002) G3 - average 89.8% gravimetric efficiency

Paneling standard AluZink® pre-painted with isolament thermal and acoustic 25 mm, AISI 304 version (option)

Electrical panel completely isolated, IP54 protection - with cooling fans. Digital display air temperature regeneration - Providing housing digital humidistat with probe% RH

by channel and / or setting range 10 to 90% - 0 to 100% (option)

Plug fans for maximum efficiency and reduced maintenance



ACCESSORIES AND VERSIONS AVAILABLE

| | |
|--------------------------------|--------------------------|
| PPS - SILICA GEL (STANDARD) | PPH - HYGIENIC (OPTION) |
| PPM - MOLECULAR SIEVE (OPTION) | PPH - High "Δx" (OPTION) |

- Heat Recovery Systems capable of recovering up to 70% of the heat generated by the machine to re-enter the cycle of operation.
- Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.
- Pre-cooling and post-cooling treatments available as option.



TECHNICAL DATA AND PERFORMANCES

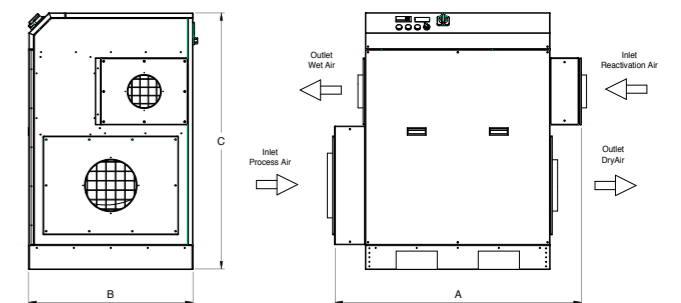
| AD | | 1000 | 1500 | 2000 | 2500 | 2900 | 3400 |
|-----------------------------------|-----------------------|------------------------|------------|------------|------------|------------|------------|
| Performance | | | | | | | |
| Drying capacity (**) | Kg/h | 9,0 | 12,5 | 16,0 | 19,1 | 23,2 | 26,4 |
| Process Fan | | | | | | | |
| Nominal air flow | m^3/h | 1000 | 1500 | 2000 | 2500 | 2900 | 3400 |
| Static pressure | Pa | 250 | 250 | 250 | 250 | 300 | 300 |
| Nominal electric power fan | KW | 0,32 | 0,57 | 0,9 | 1,4 | 1,52 | 1,52 |
| Reactivation Fan | | | | | | | |
| Nominal air flow | m^3/h | 350 | 500 | 680 | 820 | 925 | 1130 |
| Static pressure | Pa | 200 | 200 | 200 | 200 | 300 | 350 |
| Nominal electric power fan | KW | 0,16 | 0,32 | 0,57 | 0,57 | 0,57 | 0,9 |
| Motordrive | | | | | | | |
| Nominal electric power | W | 11 | 11 | 11 | 11 | 11 | 11 |
| Reactivation | | | | | | | |
| Reactivation type | | Electrical | Electrical | Electrical | Electrical | Electrical | Electrical |
| Installed electric power | KW | 13,5 | 18,0 | 22,5 | 27,0 | 30,6 | 35,7 |
| Temperature increase | $^\circ\text{C}$ | 100 | 100 | 100 | 100 | 100 | 100 |
| Reactivation type | | Steam | Steam | Steam | Steam | Steam | Steam |
| Power delivered | KW | 12,0 | 17,2 | 23,2 | 28,2 | 31,9 | 39 |
| Temperature increase | $^\circ\text{C}$ | 100 | 100 | 100 | 100 | 100 | 100 |
| Steam consumption at 6 Bar(a) | Kg/h | 18 | 25 | 35 | 42 | 50 | 61 |
| Electrical Characteristics | | | | | | | |
| Max electric power absorbed | KW | 14,0 | 18,9 | 24,0 | 29,0 | 32,7 | 38,2 |
| Max electrical current absorbed | A | 22 | 29 | 37 | 45 | 50 | 59 |
| Power supply | Volt/Ph/Hz | 400 / 3 / 50 $\pm 5\%$ | | | | | |
| Auxiliary power supply | Volt/Ph/Hz | 24 / 1 / 50 $\pm 5\%$ | | | | | |
| Environmental Noise | | | | | | | |
| Total sound pressure (**) | dB(a) | 64 | 64 | 66 | 66 | 68 | 68 |
| Total sound power (**) | dB | 92 | 92 | 94 | 94 | 96 | 96 |
| DIMENSIONS | | | | | | | |
| A | mm | 1220 | 1220 | 1220 | 1220 | 1320 | 1320 |
| B | mm | 800 | 800 | 800 | 800 | 1000 | 1000 |
| C | mm | 1250 | 1250 | 1250 | 1250 | 1350 | 1350 |
| Weight | kg | 205 | 210 | 215 | 220 | 255 | 260 |

* The conditions of 20°C 60% RH

** Sound pressure level calculated in free field, 10 meters from the unit, directional factor $Q = 2$ according to ISO 9614

Note:

Returns for different thermo-hygrometric conditions - contact TFT.



AIRDRY

AD1000-1500-2000-2500-2900-3400



AIRDRY

Dehumidifiers



MODELS

AD3000-3500-4000-5000

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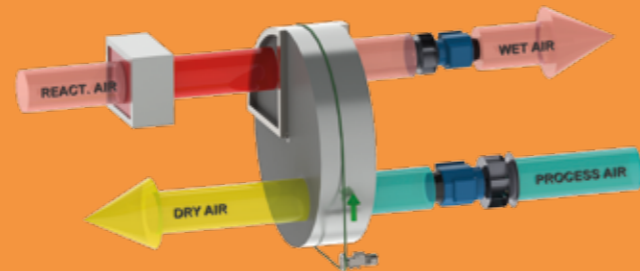
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 Paneling standard AluZink® pre-painted with isolament thermal and acoustic 25 mm, AISI 304 version (option)
 Electrical panel completely isolated, IP54 protection - with cooling fans.
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 by channel and / or setting range 10 to 90% - 0 to 100% (option)
 Plug fans for maximum efficiency and reduced maintenance



ACCESSORIES AND VERSIONS AVAILABLE

| | | | |
|--|--------------------------------|--|--------------------------|
| | PPS - SILICA GEL (STANDARD) | | PPH - HYGIENIC (OPTION) |
| | PPM - MOLECULAR SIEVE (OPTION) | | PPH - High "Δx" (option) |

- Heat Recovery Systems capable of recovering up to 70% of the heat generated by the machine to re-enter the cycle of operation.
- Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.
- Reactivation: Electrical. Steam or mixed
- Pre-cooling and post-cooling treatments available as option.



TECHNICAL DATA AND PERFORMANCES

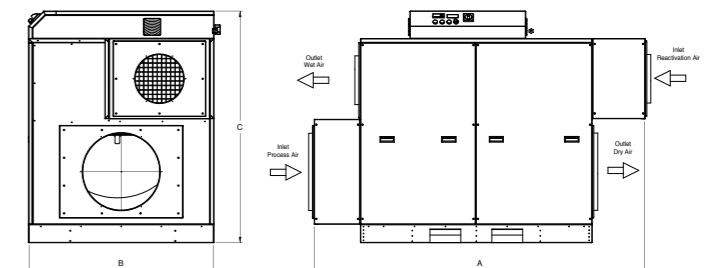
| AD | | 3000 | 3500 | 4000 | 5000 |
|-----------------------------------|-------------------|------------------|------------|------------|------------|
| Performance | | | | | |
| Drying capacity (*) | Kg/h | 25,2 | 28,6 | 32,3 | 37,4 |
| Process Fan | | | | | |
| Nominal air flow | m ³ /h | 3000 | 3500 | 4000 | 5000 |
| Static pressure | Pa | 350 | 350 | 350 | 350 |
| Nominal electric power fan | KW | 1,1 | 1,1 | 2,2 | 2,2 |
| Reactivation Fan | | | | | |
| Nominal air flow | m ³ /h | 1000 | 1150 | 1350 | 1600 |
| Static pressure | Pa | 350 | 350 | 350 | 350 |
| Nominal electric power fan | KW | 0,75 | 0,75 | 0,75 | 1,1 |
| Motordrive | | | | | |
| Nominal electric power | W | 11 | 11 | 11 | 11 |
| Reactivation | | | | | |
| Reactivation type | | Electrical | Electrical | Electrical | Electrical |
| Installed electric power | KW | 30,6 | 35,7 | 45,9 | 51 |
| Temperature increase | °C | 100 | 100 | 100 | 100 |
| Reactivation type | | Steam | Steam | Steam | Steam |
| Power delivered | KW | 34,4 | 39,7 | 46,5 | 55,3 |
| Temperature increase | °C | 100 | 100 | 100 | 100 |
| Steam consumption at 6 Bar(a) | Kg/h | 51 | 59 | 69 | 81 |
| Electrical Characteristics | | | | | |
| Max electric power absorbed | KW | 32,5 | 37,6 | 48,9 | 54,3 |
| Max electrical current absorbed | A | 50 | 58 | 75 | 83 |
| Power supply | Volt/Ph/Hz | 400 / 3 / 50 ±5% | | | |
| Auxiliary power supply | Volt/Ph/Hz | 24 / 1 / 50 ±5% | | | |
| Environmental Noise | | | | | |
| Total sound pressure (**) | dB(a) | 68 | 68 | 70 | 72 |
| Total sound power (**) | dB | 96 | 96 | 98 | 100 |
| DIMENSIONS | | | | | |
| A | mm | 1870 | 1870 | 1870 | 1870 |
| B | mm | 1100 | 1100 | 1100 | 1100 |
| C | mm | 1500 | 1500 | 1500 | 1500 |
| Weight | kg | 460 | 470 | 480 | 510 |

(*) The conditions of 20°C 60% RH

(**) Sound pressure level calculated in free field, 10 meters from the unit, directional factor Q = 2 according to ISO 9614

Note:

Returns for different thermo-hygrometric conditions - contact TFT.



AIRDRY

AD3000-3500-4000-5000



AIRDRY

Dehumidifiers



MODELS

AD7000-9000-11000

13000-19000-25000

TFT Dry Air Solutions

TECNORRIGO TUSCANY s.r.l.

Via J.F.Kennedy, 25/27/29
Z.Ind. "Fontanelle" Capanne
56020 Montopoli Val D'Arno (PI)

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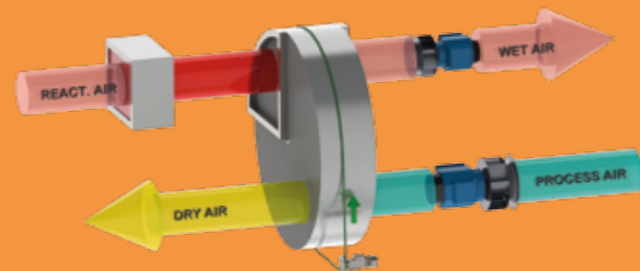
info@tftdryair.com - www.tftdryair.com





TECHNOLOGY

The system AIRDRY allows the absorption of moisture by means of a rotor made of composite material hygroscopic fiber with diameter ≥ 6 microns, therefore not inhalable from human being, on which are fixed permanently absorbent elements. Silica gel 82%, 2% acrylic surface with strength ≥ 200 kPa from every direction, pore area 600 m²/g. The rotor has a contact surface with a very large **exchange surface equal to 3.000 m²/m³ of rotor**, with a structure that allows a laminar regime of the flow of air to be dehumidified. This material **absorbs moisture from the air** that must be treated, eliminating it thanks to a stream of hot air flowing through the regeneration zone (there's not water of condensation in the expulsion process), **then discharging it to the outside**. Furthermore, in case of necessity, **the rotor AIRDRY can be washed without this altering its characteristics**.



APPLICATIONS

The AD range of products is suitable to ensure the dehumidification **even in extreme conditions** (-20°C to +40°C) obtaining dew points up to -60°C tdp and where the dehumidification process must be continuous and controlled.



SOME FEATURES

Rotor Technology AIRDRY is patented. (Sweden - No 513,238) - (U.S. - No US6265030 B1)

The rotor material is certified non-flammable

(Report Intertek Testing Service INC. In Accordance with ASTM E84-97th: Flame spread index = 0; Smoke index = 0)

The Series-AIRDRY is equipped with electric regeneration with electric heaters PTC (Positive Temperature Cut out) that allow use even safer by preventing the machine from overheating.

For size 3000 to 5000 battery steam is a standard installation.

Filters and Regeneration Process classification (EN779: 2002) G3 - average 89.8% gravimetric efficiency

Paneling standard **AluZink® pre-painted** with isolament thermal and acoustic 25 mm, **AISI 304** version (option)

Electrical panel completely isolated, IP54 protection - with cooling fans.

Digital display air temperature regeneration - Providing housing digital humidistat with probe% RH

by channel and / or setting range 10 to 90% - 0 to 100% (option)

Plug fans for maximum efficiency and reduced maintenance



ACCESSORIES AND VERSIONS AVAILABLE

| | | | |
|--|---------------------------------------|--|---------------------------------|
| | PPS - SILICA GEL (STANDARD) | | PPH - HYGIENIC (OPTION) |
| | PPM - MOLECULAR SIEVE (OPTION) | | PPH - High "Δx" (option) |

- Heat Recovery Systems capable of recovering up to 70% of the heat generated by the machine to re-enter the cycle of operation
- Reactivation: electrical, steam, hot water or mixed
- Pre-cooling and post-cooling treatments available as option
- Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.



TECHNICAL DATA AND PERFORMANCES

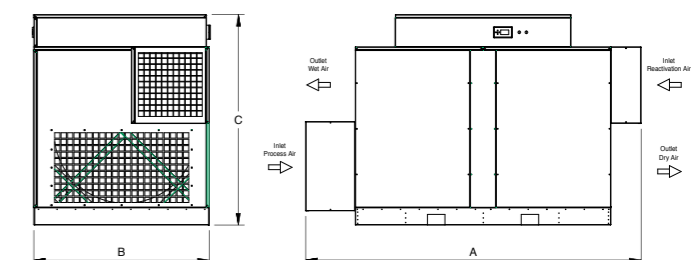
| AD | | 7000 | 9000 | 11000 | 13000 | 19000 | 25000 |
|-----------------------------------|-------------------|------------------|------------|------------|------------|------------|------------|
| Performance | | | | | | | |
| Drying capacity (*) | Kg/h | 53,4 | 65,4 | 82,6 | 93,0 | 131,3 | 160,8 |
| Process Fan | | | | | | | |
| Nominal air flow | m ³ /h | 7000 | 9000 | 11000 | 13000 | 19000 | 25000 |
| Static pressure | Pa | 400 | 400 | 400 | 400 | 400 | 400 |
| Nominal electric power fan | KW | 4 | 5,5 | 7,5 | 7,5 | 11 | 15 |
| Reactivation Fan | | | | | | | |
| Nominal air flow | m ³ /h | 2300 | 3000 | 3670 | 4300 | 6330 | 8330 |
| Static pressure | Pa | 400 | 400 | 400 | 400 | 400 | 400 |
| Nominal electric power fan | KW | 2,2 | 3 | 3 | 3 | 4 | 5,5 |
| Motordrive | | | | | | | |
| Nominal electric power | W | 11 | 11 | 11 | 11 | 11 | 11 |
| Reactivation | | | | | | | |
| Reactivation type | | Electrical | Electrical | Electrical | Electrical | Electrical | Electrical |
| Installed electric power | KW | 76,5 | 98,6 | 125,4 | 138,6 | 178,2 | 257,4 |
| Temperature increase | °C | 100 | 100 | 100 | 100 | 100 | 100 |
| Reactivation type | | Steam | Steam | Steam | Steam | Steam | Steam |
| Power delivered | KW | 78,9 | 102,7 | 126,3 | 147,5 | 188,9 | 272,4 |
| Temperature increase | °C | 100 | 100 | 100 | 100 | 100 | 100 |
| Steam consumption at 6 Bar(a) | Kg/h | 118 | 153 | 186 | 219 | 279 | 402 |
| Electrical Characteristics | | | | | | | |
| Max electric power absorbed | KW | 82,7 | 107,1 | 135,9 | 149,1 | 193,2 | 277,9 |
| Max electrical current absorbed | A | 126 | 163 | 207 | 227 | 294 | 423 |
| Power supply | Volt/Ph/Hz | 400 / 3 / 50 ±5% | | | | | |
| Auxiliary power supply | Volt/Ph/Hz | 24 / 1 / 50 ±5% | | | | | |
| Environmental Noise | | | | | | | |
| Total sound pressure (**) | dB(a) | 71 | 72 | 74 | 74 | 76 | 76 |
| Total sound power (**) | dB | 99 | 100 | 102 | 102 | 104 | 104 |
| DIMENSIONS | | | | | | | |
| A | mm | 2170 | 2170 | 2870 | 2870 | 3650 | 3650 |
| B | mm | 1255 | 1255 | 1500 | 1500 | 1860 | 1860 |
| C | mm | 1680 | 1680 | 1800 | 1800 | 2105 | 2105 |
| Weight | kg | 680 | 700 | 1350 | 1390 | 1980 | 2150 |

(*) The conditions of 20°C 60% RH

(**) Sound pressure level calculated in free field, 10 meters from the unit, directional factor Q = 2 according to ISO 9614

Note:

Returns for different thermo-hygrometric conditions - contact TFT.



AIRDRY

AD7000-9000-11000-13000-19000-25000



AIRDRY

Dehumidifiers



MODELS

ADP2500-3500-5000

6500-8000-9500

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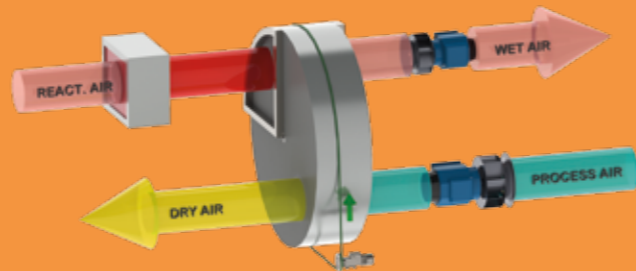
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SOME FEATURES

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- The rotor material is certified non-flammable (Report Intertek Testing Service INC. In Accordance with ASTM E84-97th: Flame spread index = 0; Smoke index = 0)
- The Series-AIRDRY is equipped with electric regeneration with electric heaters PTC (Positive Temperature Cut out) that allow use even safer by preventing the machine from overheating. For sizes 1500 and 2000 battery steam 440 kPa (option)
- Filters and Regeneration Process classification (EN779: 2002) G3 - average 89.8% gravimetric efficiency
- Paneling standard AluZink® pre-painted with isolament thermal and acoustic 25 mm, AISI 304 version (option)
- Electrical panel completely isolated, IP54 protection - with cooling fans.
- Digital display air temperature regeneration - Providing housing digital humidistat with probe% RH
- by channel and / or setting range 10 to 90% - 0 to 100% (option)
- Plug fans for maximum efficiency and reduced maintenance

ACCESSORIES AND VERSIONS AVAILABLE

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- Heat Recovery Systems capable of recovering up to 70% of the heat generated by the machine to re-enter the cycle of operation
- Reactivation: electrical, steam, hot water or mixed
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- Possibility to customize the equipments with different accessories and kits; contact the technical department for personalized solutions.

TECHNICAL DATA AND PERFORMANCES

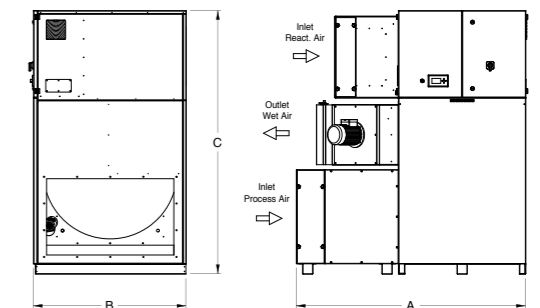
| AD | | 2000 | 3500 | 5000 | 6500 | 8000 | 9500 |
|-----------------------------------|-------------------|------------------|------------|------------|------------|------------|------------|
| Performance | | | | | | | |
| Drying capacity (**) | Kg/h | 18,6 | 31,3 | 43,6 | 57,4 | 67,3 | 78,2 |
| Process Fan | | | | | | | |
| Nominal air flow | m ³ /h | 2000 | 3500 | 5000 | 6500 | 8000 | 9500 |
| Static pressure | Pa | 450 | 450 | 450 | 450 | 450 | 450 |
| Nominal electric power fan | KW | 1,1 | 1,5 | 2,2 | 4 | 5,5 | 7,5 |
| Reactivation Fan | | | | | | | |
| Nominal air flow | m ³ /h | 700 | 1200 | 1700 | 2200 | 2600 | 3100 |
| Static pressure | Pa | 450 | 450 | 450 | 450 | 450 | 450 |
| Nominal electric power fan | KW | 0,75 | 0,75 | 1,1 | 1,5 | 1,5 | 2,2 |
| Motordrive | | | | | | | |
| Nominal electric power | W | 11 | 11 | 11 | 11 | 11 | 11 |
| Reactivation | | | | | | | |
| Reactivation type | | Electrical | Electrical | Electrical | Electrical | Electrical | Electrical |
| Installed electric power | KW | 25,5 | 39,6 | 56,1 | 72,6 | 85,8 | 99 |
| Temperature increase | °C | 100 | 100 | 100 | 100 | 100 | 100 |
| Reactivation type | | Steam | Steam | Steam | Steam | Steam | Steam |
| Power delivered | KW | 24,2 | 41,4 | 58,6 | 75,5 | 89,7 | 106,5 |
| Temperature increase | °C | 100 | 100 | 100 | 100 | 100 | 100 |
| Steam consumption at 6 Bar(a) | Kg/h | 36 | 61 | 86 | 111 | 133 | 158 |
| Electrical Characteristics | | | | | | | |
| Max electric power absorbed | KW | 27,4 | 41,9 | 59,4 | 78,1 | 92,8 | 108,7 |
| Max electrical current absorbed | A | 42 | 64 | 91 | 119 | 142 | 166 |
| Power supply | Volt/Ph/Hz | 400 / 3 / 50 ±5% | | | | | |
| Auxiliary power supply | Volt/Ph/Hz | 24 / 1 / 50 ±5% | | | | | |
| Environmental Noise | | | | | | | |
| Total sound pressure (**) | dB(a) | 60 | 64 | 65 | 66 | 69 | 70 |
| Total sound power (**) | dB | 88 | 92 | 93 | 94 | 97 | 98 |
| DIMENSIONS | | | | | | | |
| A | mm | 1610 | 1710 | 1710 | 1810 | 1810 | 1810 |
| B | mm | 1000 | 1100 | 1100 | 1200 | 1200 | 1200 |
| C | mm | 1875 | 1975 | 1975 | 2075 | 2075 | 2075 |
| Weight | kg | 490 | 550 | 590 | 690 | 710 | 730 |

(*) The conditions of 20°C 60% RH

(**) Sound pressure level calculated in free field, 10 meters from the unit, directional factor Q = 2 according to ISO 9614

Note:

Returns for different thermo-hygrometric conditions - contact TFT.



AIRDRY

ADP2500-3500-5000-6500-8000-9500



OFFICIAL DEALER/PARTNER

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