



DESICCANT DEHUMIDIFIERS



Product Catalogue

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AVON
ELECTRIC Ltd
Australasia Sole Agents

PRODUCT CATALOGUE

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DEHUTECH DEHUMIDIFIERS

GENERAL

Avon Electric have been sole NZ agents for Dehutech Dehumidifiers for over 25 years. Dehutech (Sweden) manufacture a cost effective range of packaged desiccant (absorption) dehumidifiers, - designed to remove or control almost any condensation, humidity or icing problems between -32°C - +32°C. Dehutech units are available for purchase or trial/hire.

While we usually hold some popular models in stock to purchase, all other models are brought in either via Sea (12-16 weeks) or Air Freight (5-6 weeks). While larger Dehutech models are usually brought in via Sea Freight, some of the larger Dehutech models are compact enough to be brought in via Air Freight if time is of the essence.

Dehutech have a policy of continuous improvement - the information herein subject to change without notice.

APPLICATIONS

Examples of where Dehutech Desiccant Dehumidifiers are suitable include applications such as preventing sticky products sticking together or to plant machinery, any unwanted condensation or icing problems in manufacturing or food processing especially chilled or frozen food plants....

- Avoiding ice build-up around freezer doors in freezer storerooms.
- Preventing condensation issues in meat processing plants.
- Pharmaceutical Production
- Plastics Manufacturing
- Steel Storage (Steel cannot rust below 50% RH)
- Switchboard Rooms
- Museums & Art Galleries
- Electronics Manufacturing
- Butchery & Meatwork Operations
- Confectionary & Food Production
- Storerooms
- Process Air Systems
- Film Production
- Flood Restoration
- Pumping Stations



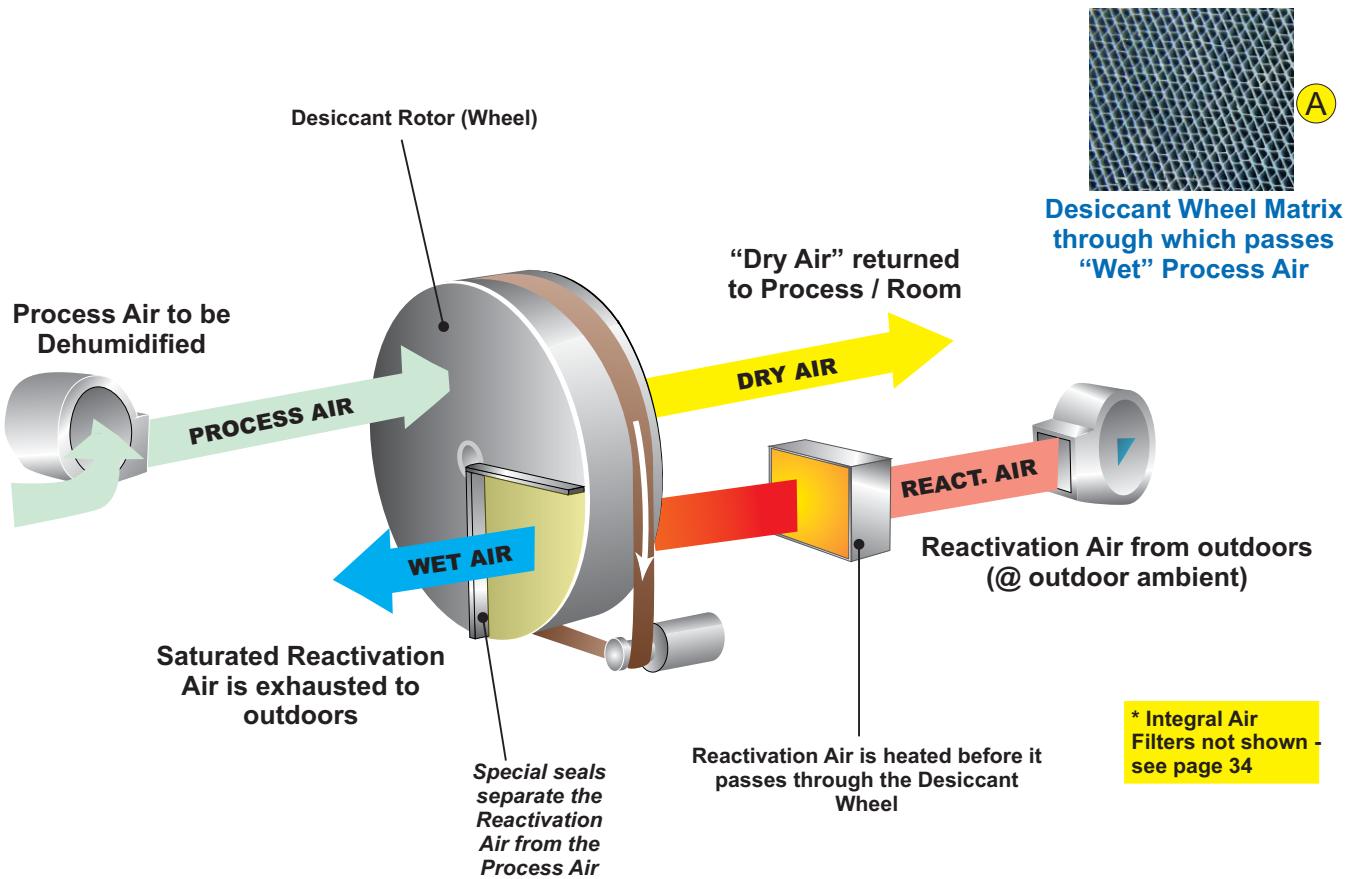
FEATURES

- PLC Controllers (Programmable Logic Controllers) with touch screen are built in to the DT1300, DT2300, DT3300 and DT3500 models and are available as an optional extra with other models (DT800 and larger).
- 24V (DC) low voltage control circuit.
- Panel or bag filters for regeneration & process air with blocked filter warning alarm standard.
- Emergency stop button is standard - models DT1300 and above.
- A rotor rotation guard, service alarms & component alarms from PLC.



DESICCANT DEHUMIDIFIERS

HOW IT WORKS



METHOD OF OPERATION

Dehutech Dehumidifiers are a rotating silica gel desiccant type, a continuously rotating wheel has every surface coated with a matrix of thousands of fine particles of silica gel (see pic A above). There are two air streams; A larger air volume which is to be dehumidified (Process Air), and a smaller air volume which reactivates the desiccant rotor (Reactivation Air).

The wheel operates at a speed similar to an oven rotisserie. As the Process Air passes through the slowly rotating wheel, the water vapour is adsorbed by the silica gel. This reduces the relative/absolute humidity of the air which then leaves the Dehumidifier as dry air. This dry air is then introduced into the space to be dehumidified or to any manufacturing process where low humidity is required.

To remove the moisture captured in the desiccant wheel, the Reactivation Air, which flows counter to the Process/dry air, is heated up in a heating coil before entering the wheel. As this warmer Reactivation air passes through a smaller segment of the wheel, the wheel material will release its moisture (desorb) into this air volume. The moisture will leave the Dehumidifier as wet air, which is then expelled away from the space that is to be humidity controlled.



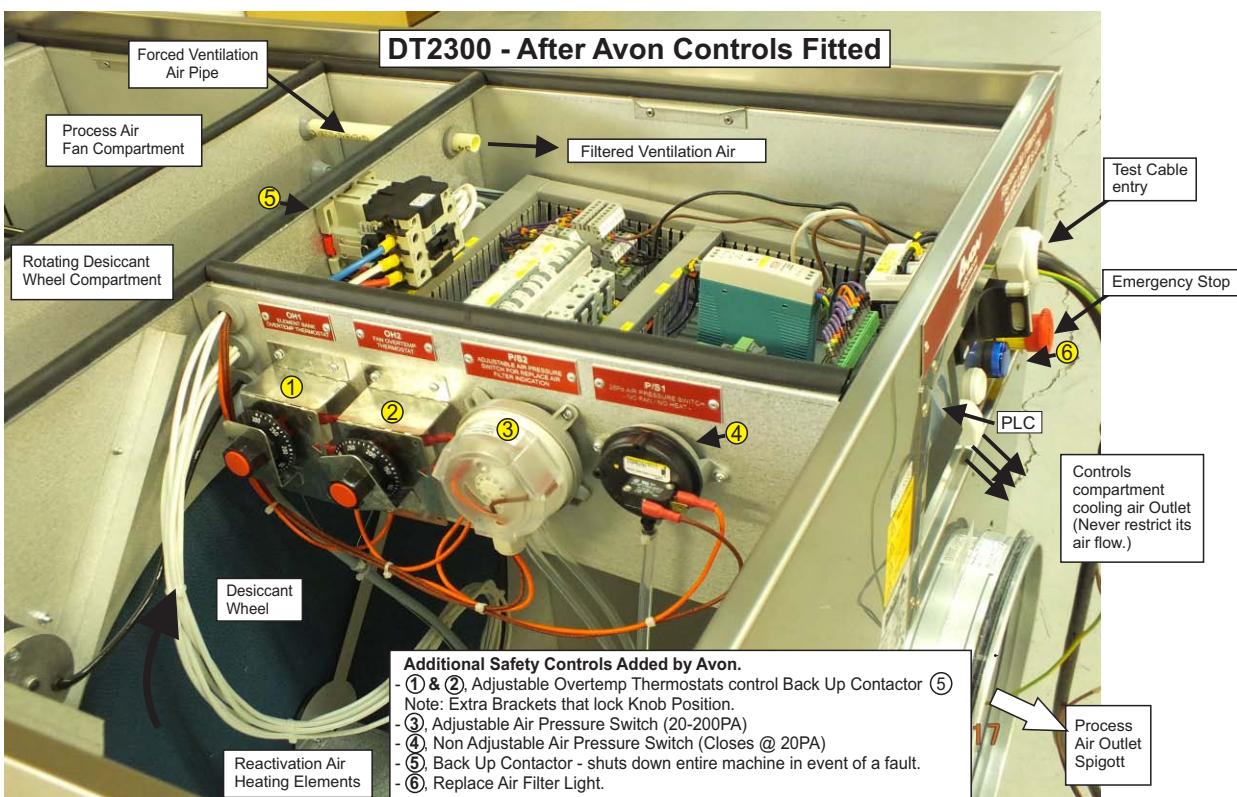
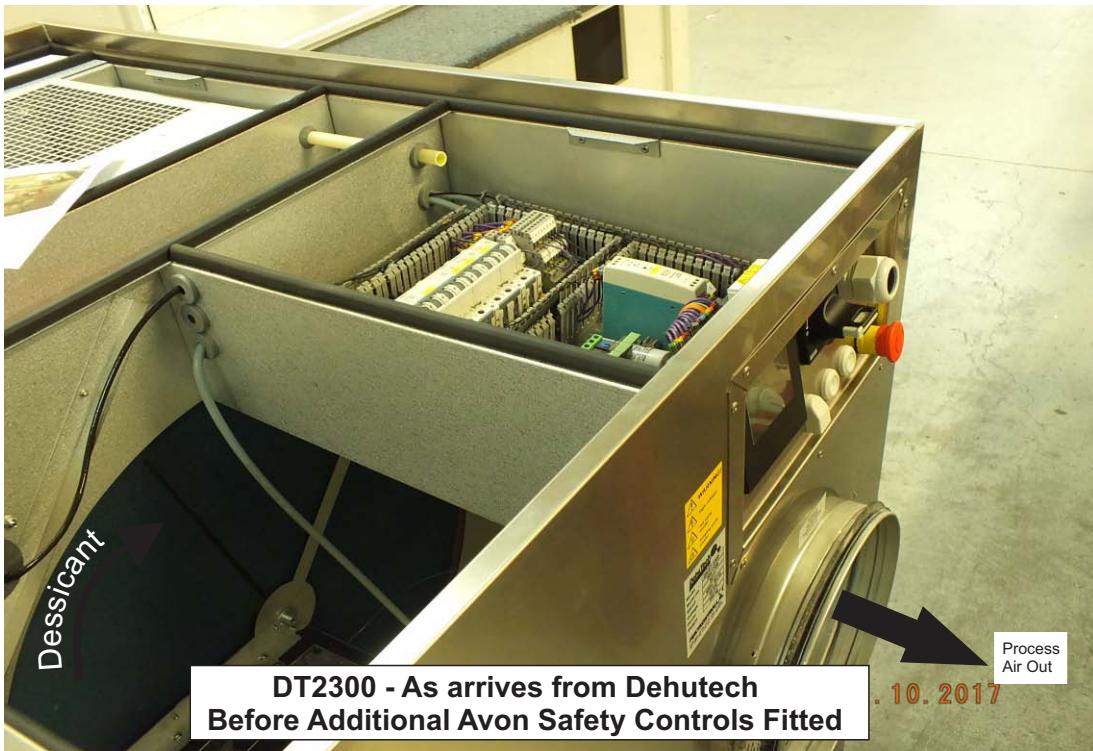
DESICCANT DEHUMIDIFIERS

SAFETY

Avon Electric is especially conscious of safety. While most imported electrical products (including Dehutech Dehumidifiers), include a Certificate of Conformity that Complies with New Zealand electrical regulations, our experience is that manufacturers only include the minimum of safety controls necessary to achieve the Certificate of Compliance.

Due to supplier responsibilities such as long term compliance with the NZBC Durability Clause B2, and because most Dehumidifiers are installed in multimillion \$ Poly Panel Production buildings and required to operate 24/7, we believe that a higher standard of safety is necessary for peace of mind.

Since the 1991 advent of the NZ Building Code, Avon's policy has been to add extra safety controls to every product we manufacture or import. Attached are example pics of a DT2300 as received and as modified by Avon with additional safety controls.



DEHUTECH DEHUMIDIFIERS

SPECIFICATIONS

MODEL	DEHUMIDIFICATION CAPACITY (@ 20°C & 60% RH)	DRY AIR FLOW	WET AIR FLOW	TOTAL POWER CONSUMPTION	WEIGHT	DIMENSIONS
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Small Range - DT 160 - 800 (44 to 222 LPS)

DT160, DT250 and DT440 models have one fan, all other models have two fans. Units have stainless steel casing and well known high quality internal components. PTC heaters, standard in all models can not overheat.

DT160	0.6kg/h	160m³/h	40m³/h	1kW	14kg	324x329x274mm
DT210	0.6kg/h	210m³/h	40m³/h	1.1kW	16.5kg	315x315x457mm
DT250	1.1kg/h	290m³/h	50m³/h	1.3kW	18kg	335x351x357mm
DT440	1.4kg/h	440m³/h	100m³/h	2.1kW	23kg	335x351x357mm
DT400	1.5kg/h	400m³/h	120m³/h	2.3kW	28kg	504x428x526mm
DT450	2.2kg/h	450m³/h	120m³/h	3.5kW	31kg	504x428x526mm
DT800	4.4kg/h	800m³/h	250m³/h	7kW	80kg	1050x600x690mm

Medium Range - DT 1100 - 4500 (305 to 1250 LPS)

Models have an insulated casing in stainless steel (double skin layout), and internal modern fans, for low noise levels. EC motors are standard on some units. Units have many different reactivation heating options, including combined heating or PTC heaters (models up to DT3500) which can not overheat. Models have easy optimisation of heating capacity. Large rotor diameters = low pressure drop.

DT1100	6.0kg/h	1100m³/h	370m³/h	10kW	80kg	1050x600x690mm
DT1300	9.5kg/h	1300m³/h	400m³/h	13.6kW	200kg	1199x807x1170mm
DT2300	13.8kg/h	2300m³/h	500m³/h	19kW	200kg	1199x807x1170mm
DT3300	14.7kg/h	3300m³/h	550m³/h	20.6kW	205kg	1199x807x1170mm
DT3500	19.2kg/h	3500m³/h	850m³/h	28.7kW	210kg	1199x807x1170mm
DT4500	24.6kg/h	4500m³/h	1400m³/h	40.8kW	520 kg	2326x1340x1311mm

Large Range - DT 5000 - 27000 (1390 to 7500 LPS)

Large units have either an Insulated Powdercoated Casing or Insulated casing (50mm) in Aluzink. Double skin layout. Internal modern plug fans, very low noise level. Does not require any special duct works. Features of large units include; internal purge zone, with adjustable bypass, large rotor diameters for lower pressure drop, standard size bag filters and many different reactivation heating options, including combined heating. Models have easy optimization of dehumidification capacity.

DT5800	29.3kg/h	5800m³/h	1400m³/h	44.8kW	520kg	2326x1340x1311mm
DT6000	39kg/h	6000m³/h	1700m³/h	54.2kW	900kg	2000x1350x1780mm
DT7000	43kg/h	7000m³/h	2200m³/h	65.5kW	540kg	2326x1340x1311mm
DT8000	53kg/h	8000m³/h	2500m³/h	79.5kW	950kg	2000x1350x1780mm
DT9000	50kg/h	9000m³/h	2500m³/h	80kW	550kg	2326x1340x1311mm
DT13000	86kg/h	13000m³/h	4200m³/h	143.5kW	1350kg	2250x1600x2300mm
DT19000	126kg/h	19000m³/h	6000m³/h	207.5kW	1700kg	2400x1900x2500mm
DT27000	182kg/h	27000m³/h	6980m³/h	309kW	2400kg	2900x2400x2500mm

DEHUTECH DEHUMIDIFIERS

PERFORMANCE CHARTS



Dehumidification Capacity (kg/h)

at 10% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.05	0.1	0.1	0.1	0.2	0.2
DT 210	0.08	0.1	0.1	0.2	0.2	0.3
DT 250	0.13	0.2	0.2	0.3	0.4	0.4
DT 440	0.19	0.3	0.3	0.4	0.5	0.6
DT 400	0.16	0.2	0.3	0.4	0.7	0.6
DT 450	0.23	0.4	0.4	0.6	0.7	0.9
DT 800	0.44	0.7	0.8	1.1	1.5	1.7
DT 1100	0.6	0.9	1.1	1.5	2.0	2.3
DT 1300	0.8	1.2	1.5	2.1	2.9	3.6
DT 2300	1.3	2.0	2.4	3.2	4.2	4.8
DT 3300	1.6	2.5	2.9	3.8	4.8	5.2
DT 3500	2.0	3.0	3.6	4.8	6.3	7.2
DT 4500	2.5	3.9	4.8	6.4	8.5	10.0
DT 5800	3.3	5.0	6.0	8.0	10.5	12.0
DT 6000	3.3	5.3	6.5	8.8	11.6	13.5
DT 7000	4.65	6.5	8.7	10.5	12.7	16.1
DT 8000	4.4	6.8	8.3	11.1	14.6	16.7
DT 9000	4.8	6.4	8.3	10.9	13.5	15.5
DT 13000	7.1	11.5	14.0	18.8	25.1	29.1
DT 19000	10.1	16.3	19.8	26.6	35.4	41.4
DT 27000	15.4	23.9	28.8	38.3	50.4	57.7

at 15% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.09	0.1	0.2	0.2	0.3	0.3
DT 210	0.19	0.2	0.3	0.4	0.5	0.6
DT 250	0.12	0.2	0.2	0.3	0.3	0.4
DT 440	0.25	0.3	0.5	0.6	0.7	0.8
DT 400	0.25	0.3	0.5	0.6	0.7	0.8
DT 450	0.36	0.5	0.7	0.8	1.0	1.2
DT 800	0.68	0.9	1.3	1.7	2.0	2.4
DT 1100	0.93	1.3	1.8	2.3	2.8	3.2
DT 1300	1.2	1.6	2.4	3.2	4.1	5.2
DT 2300	2.0	2.7	3.8	5.0	5.9	6.8
DT 3300	2.6	3.4	4.7	5.8	6.5	7.2
DT 3500	3.0	4.0	5.6	7.2	8.6	9.9
DT 4500	3.9	5.2	7.4	9.6	11.7	13.8
DT 5800	5.0	6.7	9.3	12.0	14.2	16.5
DT 6000	5.5	7.4	10.5	13.6	16.5	19.4
DT 7000	5.7	7.8	11.9	14.5	18.4	21.6
DT 8000	7.0	9.5	13.3	17.3	20.7	23.8
DT 9000	7.2	9.7	13.6	16.6	21.1	23.6
DT 13000	11.8	16.0	22.5	29.3	35.6	41.8
DT 19000	16.6	22.6	31.7	41.3	50.0	59.4
DT 27000	24.4	32.8	46.1	59.6	71.3	82.1

at 20% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.12	0.2	0.2	0.3	0.3	0.4
DT 210	0.16	0.2	0.3	0.3	0.4	0.4
DT 250	0.25	0.3	0.4	0.5	0.6	0.7
DT 440	0.38	0.5	0.6	0.8	0.9	1.0
DT 400	0.33	0.4	0.6	0.7	0.8	0.9
DT 450	0.48	0.6	0.8	1.1	1.3	1.5
DT 800	0.91	1.2	1.6	2.1	2.5	3.0
DT 1100	1.26	1.7	2.2	2.9	3.5	4.1
DT 1300	1.6	2.2	3.1	4.2	5.3	6.5
DT 2300	2.8	3.7	5.0	6.4	7.6	8.6
DT 3300	3.5	4.6	6.0	7.3	8.3	9.0
DT 3500	4.1	5.4	7.2	9.1	10.8	12.4
DT 4500	5.2	6.9	9.4	12.1	14.8	17.3
DT 5800	6.7	8.9	11.9	15.1	17.9	20.5
DT 6000	7.6	10.1	13.5	17.5	21.3	24.8
DT 7000	8.0	10.8	14.7	19.4	22.5	25.3
DT 8000	9.7	12.9	17.3	22.3	26.8	30.7
DT 9000	9.6	13.4	17.9	22.5	26.5	29.7
DT 13000	16.2	21.8	29.2	37.8	46.1	53.8
DT 19000	22.9	30.6	41.0	53.2	64.7	76.3
DT 27000	33.4	44.7	60.0	77.1	92.7	105.7

at 25% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.14	0.2	0.3	0.3	0.4	0.5
DT 210	0.18	0.2	0.3	0.4	0.4	0.5
DT 250	0.29	0.4	0.5	0.6	0.7	0.8
DT 440	0.43	0.6	0.7	0.9	1.0	1.1
DT 400	0.39	0.5	0.7	0.8	1.0	1.1
DT 450	0.56	0.8	1.0	1.3	1.5	1.7
DT 800	1.06	1.5	2.0	2.5	3.0	3.4
DT 1100	1.46	2.1	2.7	3.4	4.1	4.7
DT 1300	1.9	2.8	3.8	5.1	6.3	7.6
DT 2300	3.3	4.6	6.0	7.6	9.0	10.1
DT 3300	4.2	5.7	7.2	8.7	9.8	10.5
DT 3500	4.7	6.6	8.6	10.7	12.7	14.3
DT 4500	6.0	8.6	11.2	14.4	17.4	20.1
DT 5800	7.8	11.0	14.2	17.8	21.0	23.7
DT 6000	8.9	12.6	16.4	21.0	25.6	29.2
DT 7000	9.6	13.8	17.4	22.3	27.0	30.0
DT 8000	11.4	16.3	21.2	27.1	32.4	36.3
DT 9000	12.5	17.0	22.0	27.3	31.8	34.4
DT 13000	19.1	27.3	35.6	45.7	55.6	63.5
DT 19000	26.9	38.3	49.8	64.1	77.8	89.8
DT 27000	39.5	56.3	73.5	93.6	112.1	125.3

at 30% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.18	0.3	0.3	0.4	0.4	0.5
DT 210	0.22	0.3	0.4	0.4	0.5	0.6
DT 250	0.35	0.5	0.6	0.7	0.8	0.9
DT 440	0.52	0.7	0.9	1.0	1.1	1.2
DT 400	0.47	0.6	0.8	1.0	1.1	1.2
DT 450	0.67	0.9	1.2	1.4	1.7	1.9
DT 800	1.29	1.8	2.3	2.8	3.4	3.8
DT 1100	1.77	2.4	3.2	3.9	4.7	5.3
DT 1300	2.4	3.3	4.6	5.9	7.3	8.4
DT 2300	4.0	5.5	7.2	8.8	10.3	11.3
DT 3300	5.0	6.8	8.5	9.8	11.1	11.8
DT 3500	5.7	7.8	10.1	12.2	14.3	15.9
DT 4500	7.3	10.1	13.3	16.4	19.7	22.4
DT 5800	9.4	12.9	16.7	20.2	23.6	26.4
DT 6000	10.8	15.0	19.7	24.3	29.4	33.0
DT 7000	11.9	16.7	21.8	26.9	31.4	33.8
DT 8000	14.0	19.5	25.6	31.5	37.4	41.3
DT 9000	14.8	20.6	26.5	31.5	35.7	38.2
DT 13000	23.4	32.6	42.8	52.9	63.9	71.9
DT 19000	32.9	45.6	59.7	74.1	89.5	101.5
DT 27000	48.6	67.8	89.1	109.0	129.7	142.7

at 35% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.21	0.3	0.4	0.4	0.5	0.5
DT 210	0.25	0.3	0.4	0.5	0.5	0.6
DT 250	0.41	0.5	0.7	0.8	0.9	0.9
DT 440	0.61	0.8	1.0	1.1	1.2	1.3
DT 400	0.55	0.7	0.9	1.1	1.2	1.3
DT 450	0.78	1.0	1.3	1.6	1.9	2.1
DT 800	1.50	2.0	2.6	3.2	3.7	4.2
DT 1100	2.06	2.8	3.6	4.4	5.1	5.8
DT 1300	2.8	3.9	5.2	6.7	8.0	9.1
DT 2300	4.7	6.4	8.2	10.0	11.5	12.5
DT 3300	5.9	7.8	9.5	11.0	12.2	13.0
DT 3500	6.6	8.9	11.2	13.6	15.6	17.3
DT 4500	8.5	11.6	14.9	18.5	21.6	24.4
DT 5800	11.0	14.8	18.6	22.6	25.8	28.7
DT 6000	12.7	17.3	22.2	27.7	32.7	36.4
DT 7000	14.2	18.8	24.8	29.7	33.9	36.4
DT 8000	16.6	22.7	29.1	36.1	41.8	46.0
DT 9000	17.7	23.6	30.0	35.4	39.3	41.4
DT 13000	27.5	37.6	48.4	60.5	71.3	79.7
DT 19000	38.6	52.7	67.5	84.6	99.9	112.1
DT 27000	57.6	79.0	101.5	125.3	145.6	159.3

DEHUTECH DEHUMIDIFIERS

PERFORMANCE CHARTS



Dehumidification Capacity (kg/h)

at 40% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.24	0.3	0.4	0.5	0.5	0.6
DT 210	0.27	0.3	0.4	0.5	0.6	0.6
DT 250	0.45	0.6	0.7	0.8	0.9	1.0
DT 440	0.66	0.9	1.0	1.2	1.3	1.4
DT 400	0.60	0.8	1.0	1.2	1.3	1.4
DT 450	0.85	1.1	1.5	1.7	2.0	2.2
DT 800	1.64	2.2	2.9	3.5	4.0	4.5
DT 1100	2.26	3.1	3.9	4.8	5.5	6.1
DT 1300	3.1	4.3	5.7	7.4	8.7	9.6
DT 2300	5.2	7.0	9.0	10.9	12.4	13.4
DT 3300	6.4	8.5	10.3	11.9	13.1	13.9
DT 3500	7.2	9.7	12.3	14.7	16.6	18.4
DT 4500	9.3	12.7	16.4	20.0	23.2	26.0
DT 5800	12.0	16.1	20.3	24.3	27.6	30.4
DT 6000	13.9	18.9	24.5	30.4	35.6	39.0
DT 7000	16.5	21.6	27.6	33.2	37.1	39.2
DT 8000	18.3	25.0	32.5	39.9	45.8	49.8
DT 9000	20.0	26.5	33.4	39.2	42.0	44.0
DT 13000	30.2	41.3	53.7	66.5	77.8	85.9
DT 19000	42.4	57.7	74.7	92.9	109.0	120.3
DT 27000	63.6	87.2	113.4	138.4	160.0	172.9

at 45% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.27	0.4	0.4	0.5	0.5	0.6
DT 210	0.30	0.4	0.5	0.5	0.6	0.6
DT 250	0.50	0.6	0.8	0.9	1.0	1.0
DT 440	0.74	0.9	1.1	1.2	1.3	1.4
DT 400	0.67	0.9	1.0	1.2	1.4	1.5
DT 450	0.96	1.3	1.6	1.9	2.1	2.4
DT 800	1.84	2.5	3.1	3.7	4.3	4.7
DT 1100	2.53	3.4	4.3	5.1	5.9	6.4
DT 1300	3.5	4.8	6.3	8.0	9.3	9.9
DT 2300	5.9	7.8	9.8	11.7	13.3	14.1
DT 3300	7.2	9.3	11.1	12.7	13.9	14.7
DT 3500	8.1	10.7	13.2	15.6	17.5	19.2
DT 4500	10.5	14.1	17.8	21.4	24.6	27.3
DT 5800	13.5	17.7	21.9	25.9	29.0	31.9
DT 6000	15.7	21.0	26.7	32.8	38.1	41.4
DT 7000	17.9	24.8	30.8	35.8	38.8	41.1
DT 8000	20.7	28.0	35.7	43.4	49.3	53.3
DT 9000	22.3	29.6	36.5	42.0	44.9	46.7
DT 13000	34.1	46.0	58.7	72.0	83.5	91.5
DT 19000	47.8	64.2	81.6	100.5	117.0	127.6
DT 27000	72.5	97.9	124.8	150.6	172.9	185.9

at 50% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.3	0.4	0.5	0.5	0.6	0.6
DT 210	0.33	0.4	0.5	0.6	0.6	0.7
DT 250	0.56	0.7	0.8	0.9	1.0	1.1
DT 440	0.82	1.0	1.2	1.3	1.4	1.4
DT 400	0.74	0.9	1.1	1.3	1.4	1.6
DT 450	1.05	1.4	1.7	2.0	2.2	2.5
DT 800	2.04	2.7	3.4	4.0	4.5	4.8
DT 1100	2.80	3.7	4.6	5.5	6.1	6.7
DT 1300	3.9	5.3	6.9	8.6	9.8	10.2
DT 2300	6.5	8.6	10.7	12.5	14.0	14.7
DT 3300	8.0	10.1	12.0	13.5	14.6	15.4
DT 3500	9.0	11.6	14.2	16.5	18.2	19.9
DT 4500	11.6	15.4	19.3	22.7	25.6	28.3
DT 5800	14.8	19.2	23.6	27.3	30.1	32.9
DT 6000	17.3	23.0	29.2	35.3	40.2	43.1
DT 7000	20.1	26.6	33.2	38.0	41.2	42.9
DT 8000	23.2	30.9	39.3	47.1	52.3	56.2
DT 9000	24.9	32.7	39.9	44.4	47.3	49.0
DT 13000	37.9	50.4	64.3	77.6	88.4	95.8
DT 19000	53.1	70.4	89.2	108.3	124.1	133.0
DT 27000	81.2	108.2	137.7	163.2	184.4	196.5

at 55% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.33	0.4	0.5	0.6	0.6	0.6
DT 210	0.36	0.4	0.5	0.6	0.6	0.7
DT 250	0.60	0.7	0.9	1.0	1.0	1.1
DT 440	0.89	1.1	1.2	1.3	1.4	1.4
DT 400	0.80	1.0	1.2	1.4	1.5	1.7
DT 450	1.15	1.5	1.8	2.1	2.3	2.5
DT 800	2.23	2.9	3.6	4.2	4.6	5.0
DT 1100	3.06	4.0	4.9	5.7	6.4	6.8
DT 1300	4.3	5.8	7.4	9.1	10.2	10.3
DT 2300	7.2	9.3	11.4	13.2	14.6	15.2
DT 3300	8.7	10.8	12.6	14.1	15.2	16.0
DT 3500	9.8	12.5	15.0	17.2	18.7	20.4
DT 4500	12.7	16.6	20.4	23.7	26.4	29.1
DT 5800	16.2	20.6	24.8	28.4	30.9	33.8
DT 6000	19.0	24.9	31.1	37.2	42.0	44.5
DT 7000	21.9	29.1	35.5	40.2	43.0	44.9
DT 8000	25.5	33.6	42.2	50.0	55.0	58.9
DT 9000	27.1	35.5	42.4	46.9	49.6	51.8
DT 13000	41.5	54.7	68.6	82.0	92.6	99.7
DT 19000	58.2	76.3	95.1	114.5	130.2	137.7
DT 27000	89.8	118.2	147.8	173.2	194.8	206.5

at 60% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.35	0.4	0.5	0.6	0.6	0.7
DT 210	0.38	0.5	0.5	0.6	0.6	0.7
DT 250	0.64	0.8	0.9	1.0	1.1	1.1
DT 440	0.93	1.1	1.3	1.4	1.4	1.4
DT 400	0.85	1.1	1.2	1.4	1.5	1.7
DT 450	1.21	1.6	1.9	2.1	2.3	2.6
DT 800	2.35	3.1	3.7	4.3	4.8	5.0
DT 1100	3.23	4.3	5.1	5.9	6.5	6.9
DT 1300	4.5	6.3	7.8	9.5	10.5	10.4
DT 2300	7.6	10.0	12.0	13.7	15.1	15.6
DT 3300	9.2	11.5	13.1	14.6	15.7	16.4
DT 3500	10.3	13.2	15.6	17.7	19.1	20.8
DT 4500	13.4	17.7	21.4	24.6	27.1	29.7
DT 5800	17.0	21.9	25.9	29.3	31.6	34.4
DT 6000	20.0	26.7	32.8	38.9	43.6	45.5
DT 7000	24.3	31.4	37.6	42.2	44.4	46.3
DT 8000	27.1	36.2	44.4	52.7	57.3	61.0
DT 9000	29.7	37.9	44.7	49.1	51.5	53.6
DT 13000	43.9	58.7	72.7	86.0	96.2	102.7
DT 19000	61.5	81.9	100.6	120.1	135.5	141.0
DT 27000	95.4	127.7	157.3	182.3	204.0	214.8

at 65% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.38	0.5	0.5	0.6	0.6	0.7
DT 210	0.40	0.5	0.5	0.6	0.6	0.7
DT 250	0.68	0.8	0.9	1.0	1.1	1.1
DT 440	1.00	1.2	1.3	1.4	1.4	1.4
DT 400	0.90	1.1	1.3	1.5	1.6	1.8
DT 450	1.30	1.6	2.0	2.2	2.4	2.7
DT 800	2.52	3.2	3.9	4.5	4.9	5.1
DT 1100	3.47	4.5	5.4	6.2	6.7	7.0
DT 1300	4.9	6.7	8.3	10.0	10.7	10.4
DT 2300	8.2	10.5	12.7	14.3	15.6	15.8
DT 3300	9.8	12.0	13.7	15.1	16.1	16.8
DT 3500	11.0	13.8	16.3	18.2	19.3	21.1
DT 4500	14.4	18.5	22.4	25.3	27.6	30.2
DT 5800	18.2	22.8	27.0	30.2	32.0	34.9
DT 6000	21.6	27.9	34.7	40.7	45.0	46.3
DT 7000	25.6	33.3	39.8	43.6	45.8	47.6
DT 8000	29.3	38.1	47.8	55.4	59.3	63.0
DT 9000	31.7	40.5	47.2	51.2	53.6	55.6
DT 13000	47.4	61.6	77.1	90.0	99.3	105.3
DT 19000	66.4	86.0	106.7	125.8	140.2	143.7
DT 27000	103.6	134.6	167.8	191.5	212.3	222.9

DEHUTECH DEHUMIDIFIERS

PERFORMANCE CHARTS



Dehumidification Capacity (kg/h)

at 70% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.4	0.5	0.5	0.6	0.6	0.7
DT 210	0.42	0.5	0.6	0.6	0.7	0.7
DT 250	0.72	0.8	0.9	1.0	1.1	1.1
DT 440	1.06	1.2	1.3	1.4	1.4	1.4
DT 400	0.96	1.2	1.3	1.5	1.6	1.8
DT 450	1.38	1.7	2.0	2.3	2.4	2.7
DT 800	2.69	3.4	4.1	4.6	4.9	5.1
DT 1100	3.70	4.7	5.6	6.3	6.8	7.0
DT 1300	5.3	7.1	8.7	10.3	10.9	10.4
DT 2300	8.8	11.1	13.2	14.7	16.0	16.1
DT 3300	10.4	12.5	14.1	15.5	16.5	17.2
DT 3500	11.7	14.4	16.8	18.6	19.5	21.3
DT 4500	15.4	19.5	23.2	25.9	27.9	30.6
DT 5800	19.3	23.9	27.8	30.9	32.4	35.3
DT 6000	23.1	29.6	36.1	42.0	46.1	46.8
DT 7000	27.3	35.2	41.2	44.8	47.3	49.1
DT 8000	31.5	40.6	50.1	57.6	61.0	64.7
DT 9000	33.7	42.6	49.0	52.7	55.7	57.5
DT 13000	50.7	65.3	80.5	93.1	101.9	107.4
DT 19000	71.1	91.2	111.5	130.3	144.3	145.6
DT 27000	111.5	143.3	175.9	198.5	219.8	230.2

at 75% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.42	0.5	0.6	0.6	0.6	0.7
DT 210	0.44	0.5	0.6	0.6	0.7	0.7
DT 250	0.74	0.9	1.0	1.0	1.1	1.1
DT 440	1.09	1.3	1.4	1.4	1.4	1.4
DT 400	1.00	1.2	1.4	1.5	1.7	1.9
DT 450	1.43	1.8	2.1	2.3	2.4	2.7
DT 800	2.80	3.6	4.2	4.7	5.0	5.1
DT 1100	3.85	4.9	5.8	6.5	6.9	7.0
DT 1300	5.5	7.6	9.1	10.7	11.1	10.4
DT 2300	9.1	11.6	13.7	15.1	16.4	16.2
DT 3300	10.8	13.0	14.5	15.9	16.9	17.6
DT 3500	12.1	15.0	17.3	19.0	19.7	21.6
DT 4500	16.0	20.3	24.0	26.4	28.2	30.9
DT 5800	20.0	24.8	28.6	31.5	32.6	35.8
DT 6000	24.0	31.1	37.7	43.4	47.1	47.1
DT 7000	28.9	37.1	43.0	46.2	48.5	50.4
DT 8000	32.9	42.9	52.6	59.8	62.5	66.2
DT 9000	36.0	44.8	51.0	54.4	57.1	59.3
DT 13000	52.9	68.8	84.2	96.1	104.1	109.2
DT 19000	74.1	96.1	116.7	134.9	148.0	147.1
DT 27000	116.6	151.4	184.7	205.3	226.5	236.9

at 80% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.44	0.5	0.6	0.6	0.6	0.7
DT 210	0.46	0.5	0.6	0.6	0.7	0.7
DT 250	0.78	0.9	1.0	1.1	1.1	1.2
DT 440	1.14	1.3	1.4	1.4	1.4	1.4
DT 400	1.05	1.3	1.4	1.6	1.7	1.9
DT 450	1.51	1.9	2.2	2.4	2.5	2.8
DT 800	2.95	3.7	4.3	4.8	5.0	5.1
DT 1100	4.06	5.1	5.9	6.6	6.9	7.0
DT 1300	5.9	8.0	9.4	11.0	11.2	10.5
DT 2300	9.7	12.1	14.1	15.4	16.7	16.4
DT 3300	11.3	13.4	14.9	16.2	17.3	18.0
DT 3500	12.7	15.5	17.6	19.3	19.8	21.9
DT 4500	16.8	21.1	24.5	26.8	28.4	31.3
DT 5800	21.0	25.6	29.2	32.0	32.8	36.2
DT 6000	25.5	32.5	38.9	44.4	48.1	47.3
DT 7000	30.8	38.1	44.3	47.3	49.7	51.5
DT 8000	35.0	45.0	54.5	61.4	63.8	67.6
DT 9000	37.9	46.9	52.6	56.1	58.5	61.0
DT 13000	56.1	72.1	87.0	98.5	106.2	110.8
DT 19000	78.6	100.9	120.7	138.5	151.6	148.1
DT 27000	124.0	159.0	191.2	210.4	233.2	243.4

at 85% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.46	0.5	0.6	0.6	0.6	0.7
DT 210	0.48	0.5	0.6	0.7	0.7	0.7
DT 250	0.81	0.9	1.0	1.1	1.1	1.2
DT 440	1.18	1.3	1.4	1.4	1.4	1.4
DT 400	1.09	1.3	1.4	1.6	1.7	2.0
DT 450	1.58	1.9	2.2	2.4	2.5	2.8
DT 800	3.10	3.9	4.4	4.8	5.1	5.1
DT 1100	4.27	5.3	6.1	6.7	7.0	7.0
DT 1300	6.2	8.4	9.7	11.2	11.3	10.6
DT 2300	10.2	12.6	14.4	15.7	17.1	16.5
DT 3300	11.8	13.8	15.2	16.6	17.7	18.5
DT 3500	13.3	15.9	17.9	19.6	20.0	22.2
DT 4500	17.7	21.8	24.9	27.1	28.6	31.7
DT 5800	22.0	26.3	29.7	32.5	33.1	36.8
DT 6000	26.8	33.9	40.0	45.4	48.9	47.4
DT 7000	32.7	40.6	45.4	48.5	50.6	52.4
DT 8000	36.9	47.0	56.3	63.1	64.8	68.9
DT 9000	40.1	48.8	53.9	57.6	59.9	62.0
DT 13000	59.1	75.3	89.5	100.7	107.9	112.3
DT 19000	82.9	105.4	124.4	142.2	154.7	149.0
DT 27000	131.0	166.0	197.0	215.1	238.7	249.8

at 90% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.48	0.5	0.6	0.7	0.6	0.8
DT 210	0.49	0.5	0.6	0.7	0.7	0.6
DT 250	0.83	0.9	1.0	1.1	1.2	1.2
DT 440	1.21	1.3	1.4	1.4	1.5	1.4
DT 400	1.13	1.3	1.5	1.7	1.8	2.1
DT 450	1.65	2.0	2.3	2.4	2.5	2.9
DT 800	3.24	4.0	4.5	4.9	5.1	5.1
DT 1100	4.46	5.5	6.2	6.7	7.0	7.0
DT 1300	6.6	8.8	10.0	11.4	11.4	10.8
DT 2300	10.7	13.0	14.8	15.9	17.5	16.7
DT 3300	12.2	14.1	15.5	16.9	18.2	19.0
DT 3500	13.7	16.2	18.2	19.9	20.1	22.7
DT 4500	18.4	22.3	25.3	27.3	28.7	32.2
DT 5800	22.8	26.9	30.1	32.9	33.4	37.6
DT 6000	28.2	35.2	41.2	46.2	49.6	47.5
DT 7000	34.1	42.1	46.7	49.3	51.4	53.5
DT 8000	38.8	48.9	58.1	64.4	65.7	70.3
DT 9000	41.8	50.6	55.4	58.6	61.5	63.5
DT 13000	62.1	78.2	92.2	102.4	109.4	113.9
DT 19000	87.1	109.7	128.4	145.1	157.7	149.9
DT 27000	137.6	172.4	203.0	218.2	244.0	256.4

at 95% RH

	5°C	10°C	15°C	20°C	25°C	30°C
DT 160	0.48	0.5	0.6	0.7	0.6	0.8
DT 210	0.50	0.5	0.6	0.7	0.7	0.6
DT 250	0.85	1.0	1.0	1.1	1.2	1.2
DT 440	1.23	1.4	1.4	1.4	1.5	1.4
DT 400	1.16	1.4	1.5	1.7	1.8	2.2
DT 450	1.69	2.0	2.3	2.4	2.5	3.0
DT 800	3.33	4.0	4.6	4.9	5.2	5.1
DT 1100	4.58	5.6	6.3	6.8	7.1	7.0
DT 1300	6.8	9.1	10.3	11.6	11.5	11.2
DT 2300	11.0	13.3	15.0	16.2	17.9	16.9
DT 3300	12.5	14.3	15.7	17.3	18.8	19.6
DT 3500	14.1	16.4	18.4	20.2	20.4	23.3
DT 4500	18.9	22.7	25.6	27.5	29.0	32.9
DT 5800	23.3	27.2	30.4	33.5	33.8	38.7
DT 6000	29.1	36.2	42.0	46.9	50.5	47.6
DT 7000	35.8	43.3	47.5	50.3	52.5	54.3
DT 8000	40.0	50.2	59.4	65.6	66.5	71.6
DT 9000	43.7	51.9	56.6	60.0	62.9	64.8
DT 13000	64.0	80.3	94.1	104.0	111.0	115.6
DT 19000	89.9	112.8	131.5	148.2	160.9	151.0
DT 27000	141.8	176.7	207.1	220.7	249.4	263.3

DEHUTECH DT160 DEHUMIDIFIER

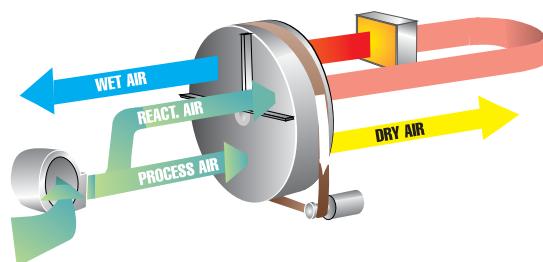


A self-contained unit with fan, filter, rotor and controls, ready for connection to standard-size duct, electrical mains (230V 50 Hz) and external humidity sensor.

Sturdy housing in stainless steel. Low weight. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk of overheating and allows stepless capacity control. The desiccant rotor, including the transmission element and fan, can be easily be lifted out of the housing for external inspection and service.

Technical Data:

Dry air flow (Free blowing)	160m ³ /h (44 LPS)
Wet air flow	40m ³ /h (11 LPS)
Power Supply (1 x 230V, 50Hz)	1.0kW
Max Noise level	53 dB(A)
Weight	10.5kg

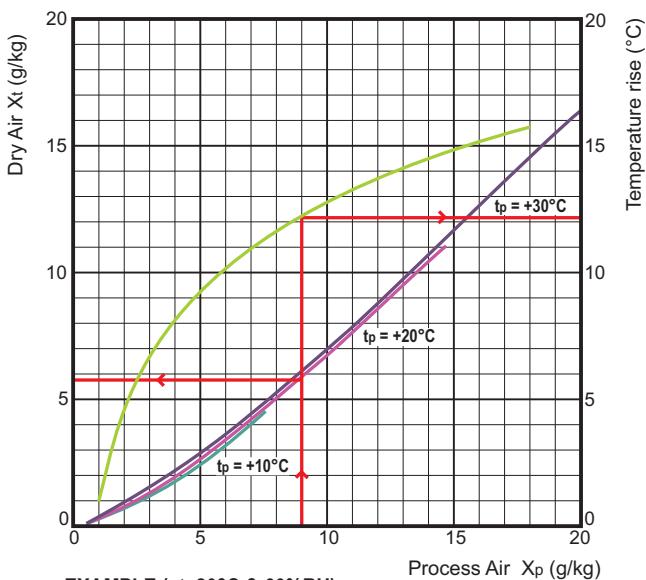


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.05	0.1	0.1	0.1	0.2	0.2
15% RH	0.09	0.1	0.2	0.2	0.3	0.3
20% RH	0.12	0.2	0.2	0.3	0.3	0.4
25% RH	0.14	0.2	0.3	0.3	0.4	0.5
30% RH	0.18	0.3	0.3	0.4	0.4	0.5
35% RH	0.21	0.3	0.4	0.4	0.5	0.5
40% RH	0.24	0.3	0.4	0.5	0.5	0.6
45% RH	0.27	0.4	0.4	0.5	0.5	0.6
50% RH	0.3	0.4	0.5	0.5	0.6	0.6
55% RH	0.33	0.4	0.5	0.6	0.6	0.6
60% RH	0.35	0.4	0.5	0.6	0.6	0.7
65% RH	0.38	0.5	0.5	0.6	0.6	0.7
70% RH	0.4	0.5	0.5	0.6	0.6	0.7
75% RH	0.42	0.5	0.6	0.6	0.6	0.7
80% RH	0.44	0.5	0.6	0.6	0.6	0.7
85% RH	0.46	0.5	0.6	0.6	0.6	0.7
90% RH	0.48	0.5	0.6	0.7	0.6	0.8
95% RH	0.48	0.5	0.6	0.7	0.6	0.8
100% RH	0.5	0.6	0.6	0.7	0.7	0.8

Note! Please consider using a DT210 when the absolute humidity in the process air is below 0.5 g/kg (Blue figures).

Capacity Diagram

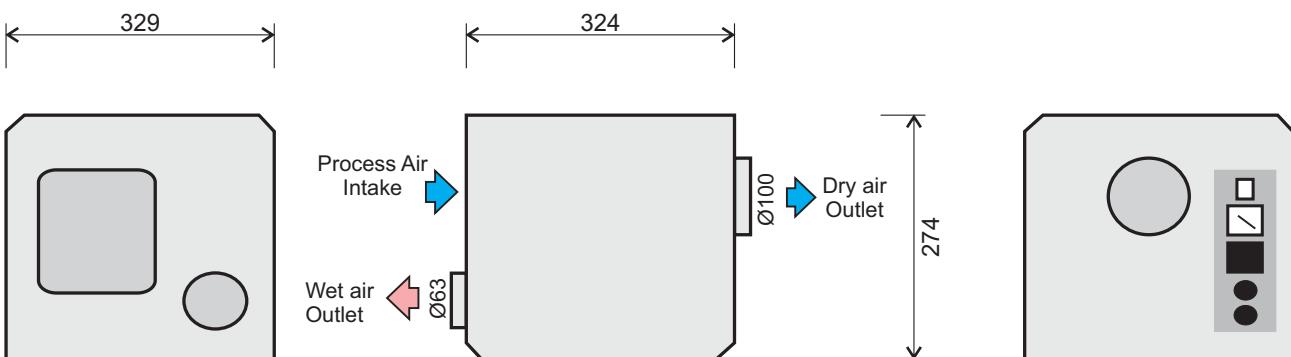


EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving

Dry air: $X_t = 5.8 \text{ g/kg}$, $t_t = 20 + 12.2 = 32.2^\circ\text{C}$

Dimensions (mm)



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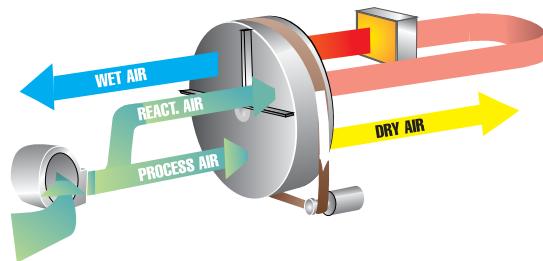
DT250 DEHUMIDIFIER



The DT250 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting, electrical mains (1 x 230V 50Hz), and external humidity sensor. Sturdy housing in stainless steel. Low weight. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control. The desiccant rotor, including its transmission element and fan, can be easily lifted out of the housing for external inspection and service.

Technical Data:

Dry air flow (freeblowing)	290m ³ /h (80 LPS)
Wet air flow	50m ³ /h (14 LPS)
Power Supply (1 x 230V, 50Hz)	1.3kW
Weight	14kg
Max Noise level	52.9 dB(A)

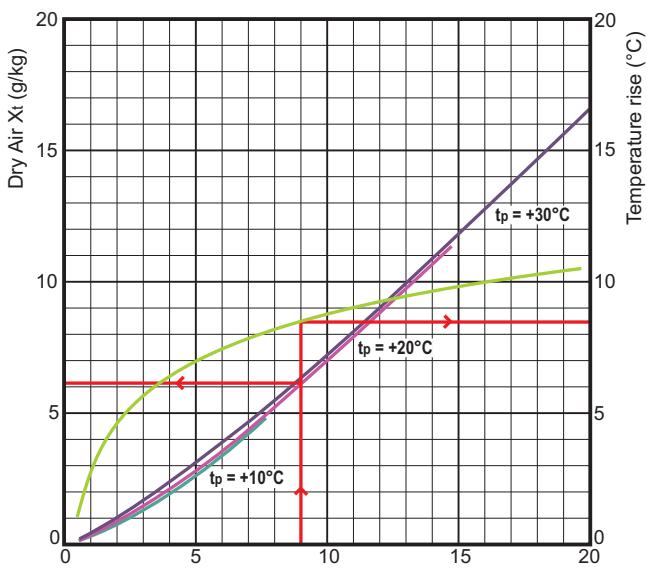


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.13	0.2	0.2	0.3	0.4	0.4
15% RH	0.19	0.2	0.3	0.4	0.5	0.6
20% RH	0.25	0.3	0.4	0.5	0.6	0.7
25% RH	0.29	0.4	0.5	0.6	0.7	0.8
30% RH	0.35	0.5	0.6	0.7	0.8	0.9
35% RH	0.41	0.5	0.7	0.8	0.9	0.9
40% RH	0.45	0.6	0.7	0.8	0.9	1.0
45% RH	0.50	0.6	0.8	0.9	1.0	1.0
50% RH	0.56	0.7	0.8	0.9	1.0	1.1
55% RH	0.60	0.7	0.9	1.0	1.0	1.1
60% RH	0.64	0.8	0.9	1.0	1.1	1.1
65% RH	0.68	0.8	0.9	1.0	1.1	1.1
70% RH	0.72	0.8	0.9	1.0	1.1	1.1
75% RH	0.74	0.9	1.0	1.0	1.1	1.1
80% RH	0.78	0.9	1.0	1.1	1.1	1.2
85% RH	0.81	0.9	1.0	1.1	1.1	1.2
90% RH	0.83	0.9	1.0	1.1	1.2	1.2
95% RH	0.85	1.0	1.0	1.1	1.2	1.2
100% RH	0.86	1.0	1.0	1.1	1.2	1.3

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

Capacity Diagram

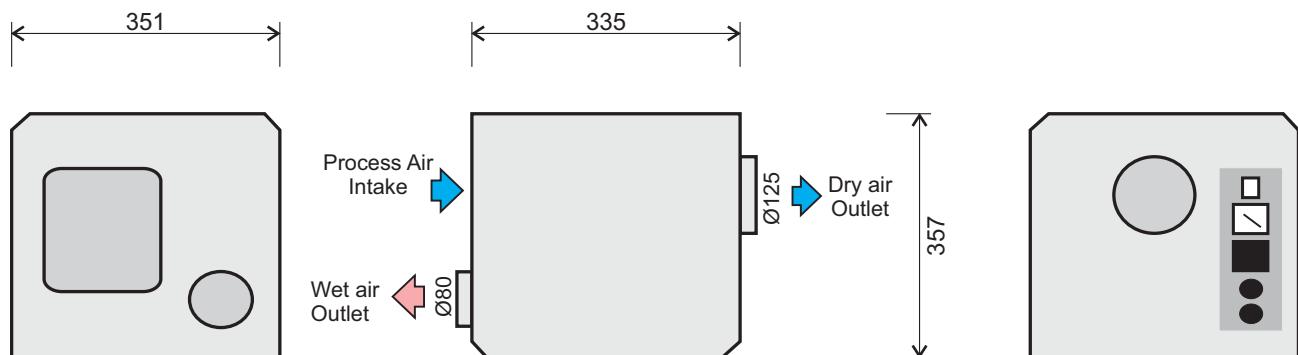


EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving

Dry air: $X_t = 6.1 \text{ g/kg}$, $t_t = 20 + 8.5 = 28.5^\circ\text{C}$

Dimensions (mm)



DEHUTECH

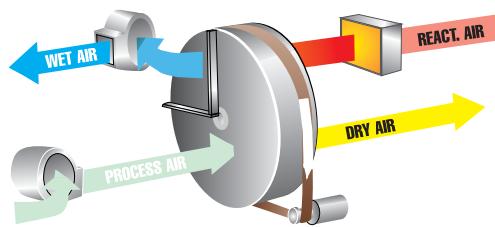
DT210 DEHUMIDIFIER



The DT210 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting, electrical mains (1 x 230V 50Hz), and external humidity sensor. Sturdy housing in stainless steel. Low weight. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control. The desiccant rotor, including its transmission element and fan, can be easily lifted out of the housing for external inspection and service.

Technical Data:

Dry air flow (freeblowing)	210m ³ /h (58 LPS)
Wet air flow (freeblowing)	40m ³ /h (11 LPS)
Power Supply (1 x 230V, 50Hz)	1.1kW
Weight	16.5kg
Max Noise level	53.3 dB(A)

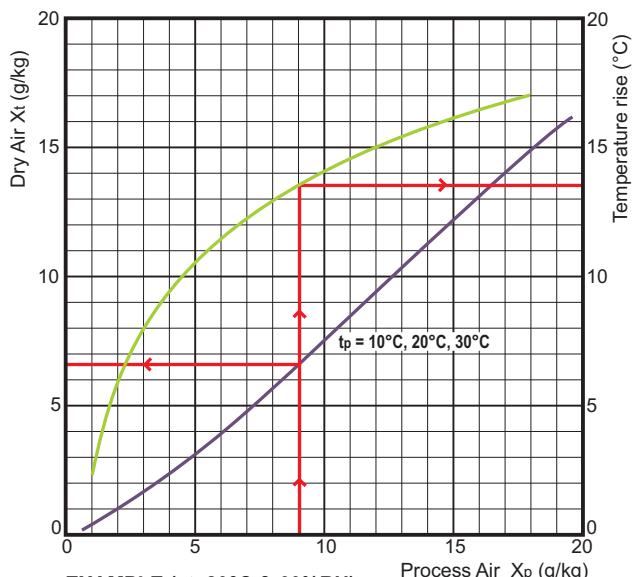


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.08	0.1	0.1	0.2	0.2	0.3
15% RH	0.12	0.2	0.2	0.3	0.3	0.4
20% RH	0.16	0.2	0.3	0.3	0.4	0.4
25% RH	0.18	0.2	0.3	0.4	0.4	0.5
30% RH	0.22	0.3	0.4	0.4	0.5	0.6
35% RH	0.25	0.3	0.4	0.5	0.5	0.6
40% RH	0.27	0.3	0.4	0.5	0.6	0.6
45% RH	0.30	0.4	0.5	0.5	0.6	0.6
50% RH	0.33	0.4	0.5	0.6	0.6	0.7
55% RH	0.36	0.4	0.5	0.6	0.6	0.7
60% RH	0.38	0.5	0.5	0.6	0.6	0.7
65% RH	0.40	0.5	0.5	0.6	0.6	0.7
70% RH	0.42	0.5	0.6	0.6	0.7	0.7
75% RH	0.44	0.5	0.6	0.6	0.7	0.7
80% RH	0.46	0.5	0.6	0.6	0.7	0.7
85% RH	0.48	0.5	0.6	0.7	0.7	0.7
90% RH	0.49	0.5	0.6	0.7	0.7	0.6
95% RH	0.50	0.5	0.6	0.7	0.7	0.6
100% RH	0.52	0.5	0.6	0.7	0.7	0.6

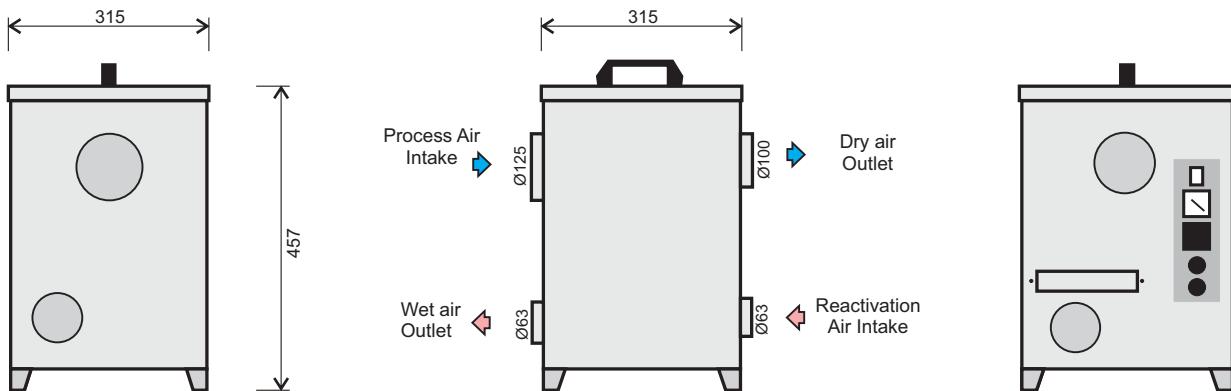
Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :
Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 6.6 \text{ g/kg}$, $t_t = 20 + 13.6 = 33.6^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT400 DEHUMIDIFIER

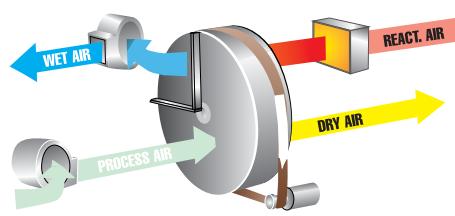


The DT400 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting, electrical mains (1 x 230V 50Hz), and external humidity sensor. Sturdy housing in stainless steel. Low weight. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control.

The desiccant rotor, including its transmission element and fan, can be easily lifted out of the housing for external inspection and service.

Technical Data:

Dry air flow (at 30Pa External Pressure)	400m³/h (111 LPS)
Wet air flow (freeblowing)	120m³/h (33 LPS)
Power Supply (1 x 230V, 50Hz)	2.3kW
Weight	28kg
Max Noise level	62.2 dB(A)

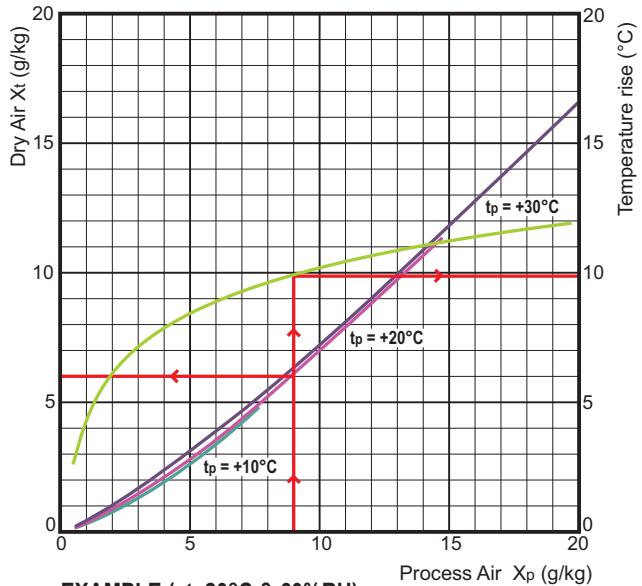


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.16	0.2	0.3	0.4	0.7	0.6
15% RH	0.25	0.3	0.5	0.6	0.7	0.8
20% RH	0.33	0.4	0.6	0.7	0.8	0.9
25% RH	0.39	0.5	0.7	0.8	1.0	1.1
30% RH	0.47	0.6	0.8	1.0	1.1	1.2
35% RH	0.55	0.7	0.9	1.1	1.2	1.3
40% RH	0.60	0.8	1.0	1.2	1.3	1.4
45% RH	0.67	0.9	1.0	1.2	1.4	1.5
50% RH	0.74	0.9	1.1	1.3	1.4	1.6
55% RH	0.80	1.0	1.2	1.4	1.5	1.7
60% RH	0.85	1.1	1.2	1.4	1.5	1.7
65% RH	0.90	1.1	1.3	1.5	1.6	1.8
70% RH	0.96	1.2	1.3	1.5	1.6	1.8
75% RH	1.00	1.2	1.4	1.5	1.7	1.9
80% RH	1.05	1.3	1.4	1.6	1.7	1.9
85% RH	1.09	1.3	1.4	1.6	1.7	2.0
90% RH	1.13	1.3	1.5	1.7	1.8	2.1
95% RH	1.16	1.4	1.5	1.7	1.8	2.2
100% RH	1.19	1.4	1.5	1.7	1.9	2.3

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

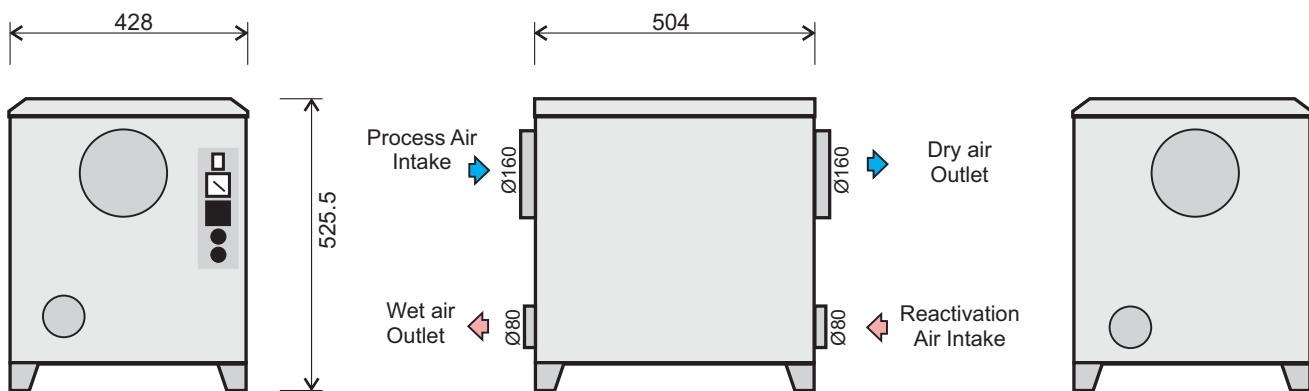
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 6 \text{ g/kg}$, $t_t = 20 + 9.9 = 29.9^\circ\text{C}$

Dimensions (mm)



DEHUTECH DT440 DEHUMIDIFIER

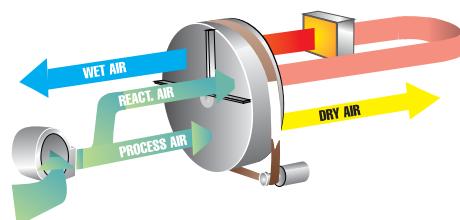


A self-contained unit with fan, filter, rotor and controls, ready for connection to standard-size duct, electrical mains (230V 50 Hz) and external humidity sensor.

Sturdy housing in stainless steel. Low weight. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk of overheating and allows stepless capacity control. The desiccant rotor, including the transmission element and fan, can be easily be lifted out of the housing for external inspection and service.

Technical Data:

Dry air flow (freeblowing)	440m ³ /h (122 LPS)
Wet air flow	100m ³ /h (28 LPS)
Power Supply (1 x 230V, 50Hz)	2.1kW
Weight	14.5kg
Max Noise level	69 dB(A)

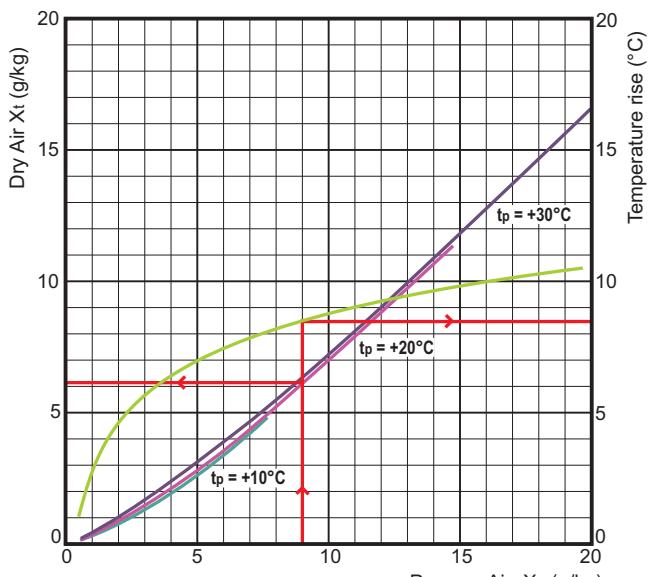


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.19	0.3	0.3	0.4	0.5	0.6
15% RH	0.28	0.4	0.5	0.6	0.7	0.8
20% RH	0.38	0.5	0.6	0.8	0.9	1.0
25% RH	0.43	0.6	0.7	0.9	1.0	1.1
30% RH	0.52	0.7	0.9	1.0	1.1	1.2
35% RH	0.61	0.8	1.0	1.1	1.2	1.3
40% RH	0.66	0.9	1.0	1.2	1.3	1.4
45% RH	0.74	0.9	1.1	1.2	1.3	1.4
50% RH	0.82	1.0	1.2	1.3	1.4	1.4
55% RH	0.89	1.1	1.2	1.3	1.4	1.4
60% RH	0.93	1.1	1.3	1.4	1.4	1.4
65% RH	1.00	1.2	1.3	1.4	1.4	1.4
70% RH	1.06	1.2	1.3	1.4	1.4	1.4
75% RH	1.09	1.3	1.4	1.4	1.4	1.4
80% RH	1.14	1.3	1.4	1.4	1.4	1.4
85% RH	1.18	1.3	1.4	1.4	1.4	1.4
90% RH	1.21	1.3	1.4	1.4	1.5	1.4
95% RH	1.23	1.4	1.4	1.4	1.5	1.4
CCCAI G	1.35	1.4	1.4	1.4	1.5	1.4

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

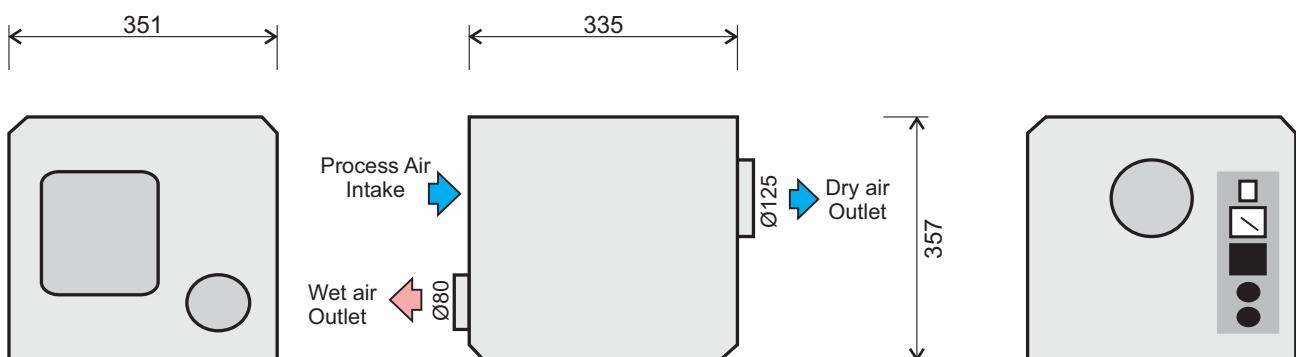
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 6.1 \text{ g/kg}$, $t = 20 + 8.5 = 28.5^\circ\text{C}$

Dimensions (mm)



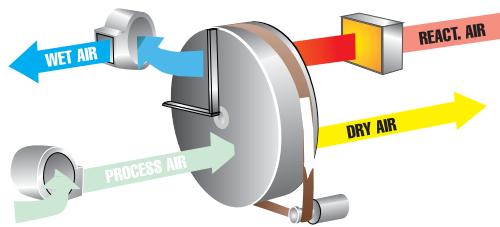
DEHUTECH DT450 DEHUMIDIFIER



The DT450 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting, electrical mains (1 x 230V 50Hz), and external humidity sensor. Sturdy housing in stainless steel. Low weight. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control. The desiccant rotor, including its transmission element and fan, can be easily lifted out of the housing for external inspection and service.

Technical Data:

Dry air flow (freeblowing)	450m ³ /h (125 LPS)
Wet air flow (freeblowing)	120m ³ /h (33 LPS)
Power Supply (1 x 230V, 50Hz)	3.5kW
Weight	31kg
Max Noise level	63 dB(A)

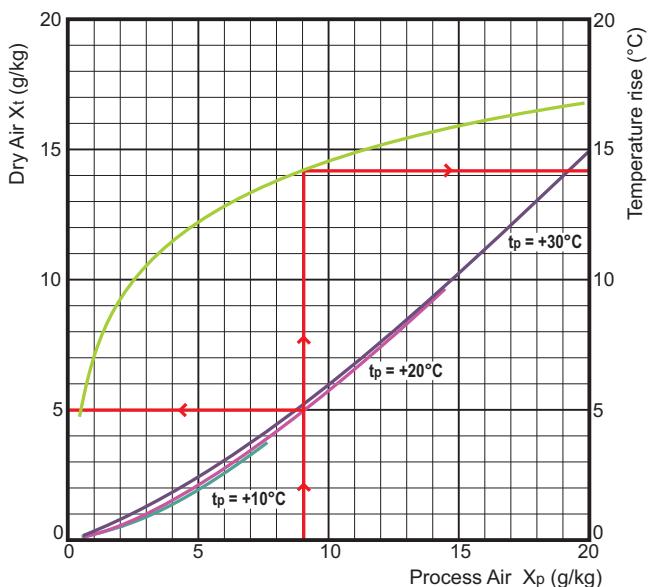


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.23	0.4	0.4	0.6	0.7	0.9
15% RH	0.36	0.5	0.7	0.8	1.0	1.2
20% RH	0.48	0.6	0.8	1.1	1.3	1.5
25% RH	0.56	0.8	1.0	1.3	1.5	1.7
30% RH	0.67	0.9	1.2	1.4	1.7	1.9
35% RH	0.78	1.0	1.3	1.6	1.9	2.1
40% RH	0.85	1.1	1.5	1.7	2.0	2.2
45% RH	0.96	1.3	1.6	1.9	2.1	2.4
50% RH	1.05	1.4	1.7	2.0	2.2	2.5
55% RH	1.15	1.5	1.8	2.1	2.3	2.5
60% RH	1.21	1.6	1.9	2.1	2.3	2.6
65% RH	1.30	1.6	2.0	2.2	2.4	2.7
70% RH	1.38	1.7	2.0	2.3	2.4	2.7
75% RH	1.43	1.8	2.1	2.3	2.4	2.7
80% RH	1.51	1.9	2.2	2.4	2.5	2.8
85% RH	1.58	1.9	2.2	2.4	2.5	2.8
90% RH	1.65	2.0	2.3	2.4	2.5	2.9
95% RH	1.69	2.0	2.3	2.4	2.5	3.0
100% RH	1.76	2.1	2.3	2.5	2.5	3.1

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

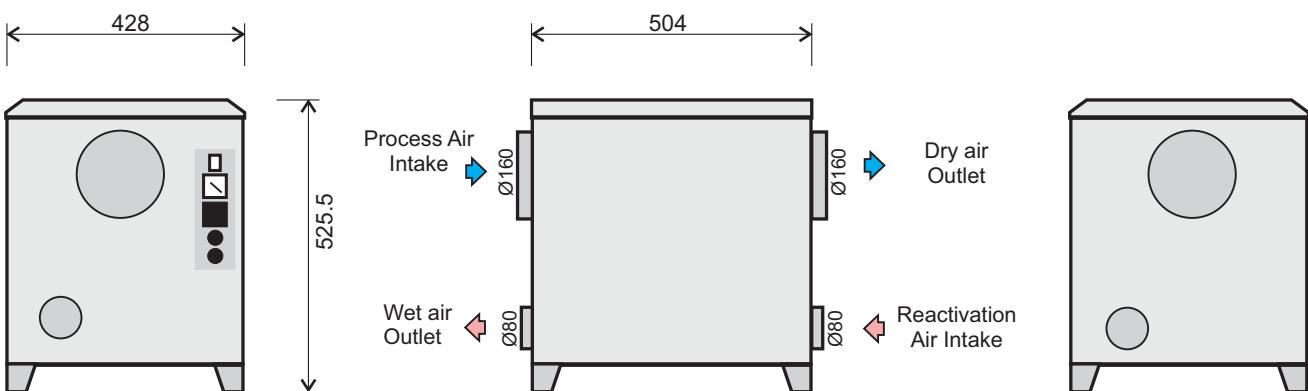
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 5 \text{ g/kg}$, $t_t = 20 + 14.2 = 34.2^\circ\text{C}$

Dimensions (mm)



DEHUTECH

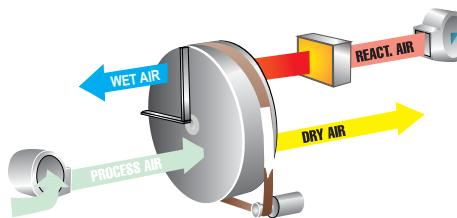
DT800 DEHUMIDIFIER



The DT800 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Sturdy housing in stainless steel. Controls including, humidity sensor operation, alarm system, and different options for dry air fan operation. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control.

Technical Data:

Dry air flow (at 150Pa available external pressure)	800m ³ /h (222 LPS)
Wet air flow (at 175Pa available external pressure)	250m ³ /h (69 LPS)
Power Supply (3 x 400V, 50Hz)	7kW
Weight	80kg
Max Noise level	60 dB(A)

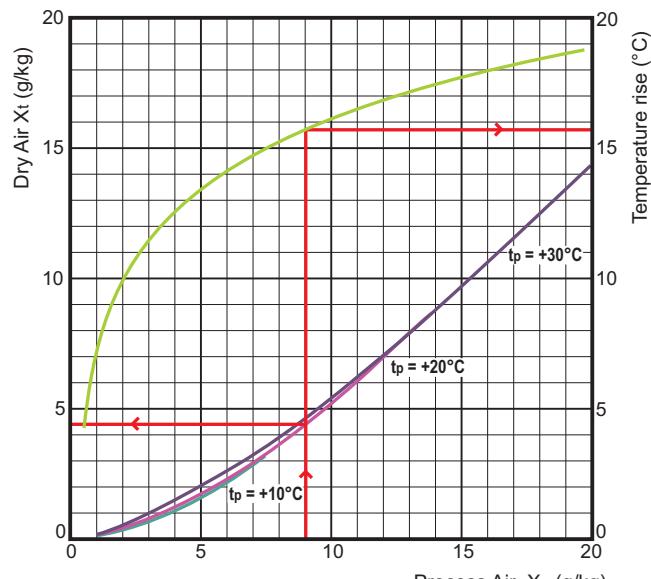


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.44	0.7	0.8	1.1	1.5	1.7
15% RH	0.68	0.9	1.3	1.7	2.0	2.4
20% RH	0.91	1.2	1.6	2.1	2.5	3.0
25% RH	1.06	1.5	2.0	2.5	3.0	3.4
30% RH	1.29	1.8	2.3	2.8	3.4	3.8
35% RH	1.50	2.0	2.6	3.2	3.7	4.2
40% RH	1.64	2.2	2.9	3.5	4.0	4.5
45% RH	1.84	2.5	3.1	3.7	4.3	4.7
50% RH	2.04	2.7	3.4	4.0	4.5	4.8
55% RH	2.23	2.9	3.6	4.2	4.6	5.0
60% RH	2.35	3.1	3.7	4.3	4.8	5.0
65% RH	2.52	3.2	3.9	4.5	4.9	5.1
70% RH	2.69	3.4	4.1	4.6	4.9	5.1
75% RH	2.80	3.6	4.2	4.7	5.0	5.1
80% RH	2.95	3.7	4.3	4.8	5.0	5.1
85% RH	3.10	3.9	4.4	4.8	5.1	5.1
90% RH	3.24	4.0	4.5	4.9	5.1	5.1
95% RH	3.33	4.0	4.6	4.9	5.2	5.1
100% RH	3.46	4.1	4.6	5.0	5.2	5.1

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

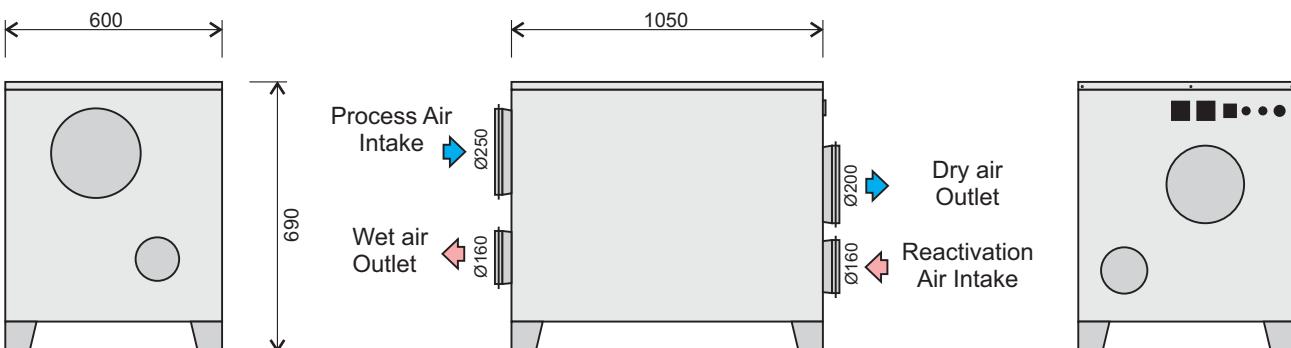
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 4.2 \text{ g/kg}$, $t_t = 20 + 15.7 = 35.7^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT1100 DEHUMIDIFIER



The DT1100 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Sturdy housing in stainless steel. Controls including, humidity sensor operation, alarm system, and different options for dry air fan operation. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control.

Technical Data:

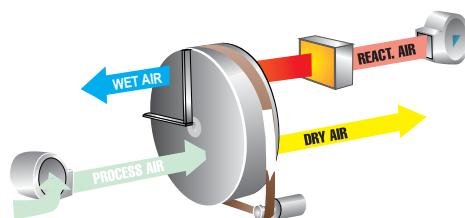
Dry air flow **1100m³/h (306 LPS)**
(at 200Pa available external pressure)

Wet air flow **370m³/h (103 LPS)**
(at 200Pa available external pressure)

Power Supply **10kW**
(3 x 400V, 50Hz)

Weight **80kg**

Max Noise level **62 dB(A)**



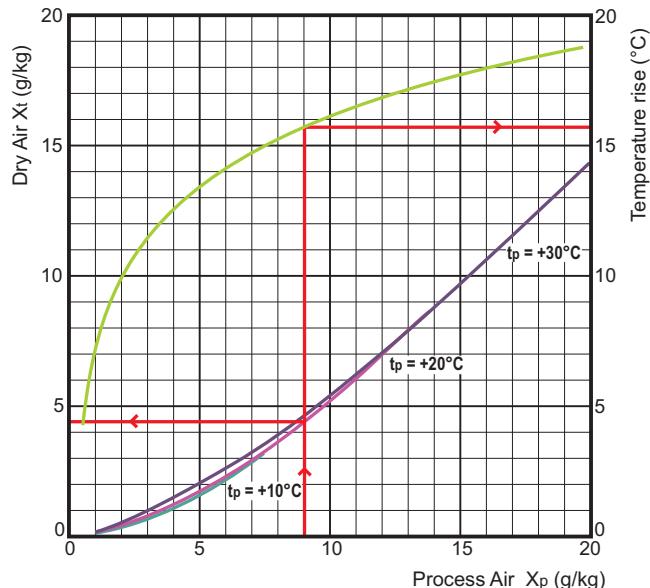
Dehumidification Capacity (kg/h)

Process Air Temperature

Process Air Relative Humidity	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.60	0.9	1.1	1.5	2.0	2.3
15% RH	0.93	1.3	1.8	2.3	2.8	3.2
20% RH	1.26	1.7	2.2	2.9	3.5	4.1
25% RH	1.46	2.1	2.7	3.4	4.1	4.7
30% RH	1.77	2.4	3.2	3.9	4.7	5.3
35% RH	2.06	2.8	3.6	4.4	5.1	5.8
40% RH	2.26	3.1	3.9	4.8	5.5	6.1
45% RH	2.53	3.4	4.3	5.1	5.9	6.4
50% RH	2.80	3.7	4.6	5.5	6.1	6.7
55% RH	3.06	4.0	4.9	5.7	6.4	6.8
60% RH	3.23	4.3	5.1	5.9	6.5	6.9
65% RH	3.47	4.5	5.4	6.2	6.7	7.0
70% RH	3.70	4.7	5.6	6.3	6.8	7.0
75% RH	3.85	4.9	5.8	6.5	6.9	7.0
80% RH	4.06	5.1	5.9	6.6	6.9	7.0
85% RH	4.27	5.3	6.1	6.7	7.0	7.0
90% RH	4.46	5.5	6.2	6.7	7.0	7.0
95% RH	4.58	5.6	6.3	6.8	7.1	7.0
100% RH	4.76	5.7	6.4	6.8	7.2	7.0

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

Capacity Diagram

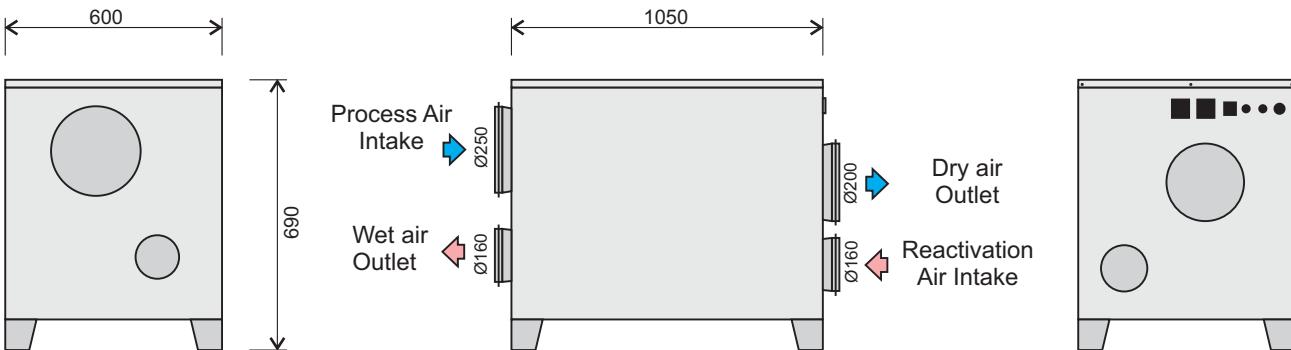


EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving

Dry air: $X_t = 4.2 \text{ g/kg}$, $t_t = 20 + 15.7 = 35.7^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT1300 DEHUMIDIFIER



The DT1300 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Insulated housing in stainless steel. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard.

Technical Data:

Dry air flow (at 200Pa available external pressure)	1300m ³ /h (361 LPS)
Wet air flow (at 320Pa available external pressure)	400m ³ /h (111 LPS)
Power Supply (3 x 400V, 50Hz)	13.6kW
Weight	200kg
Max Noise level	63 dB(A)



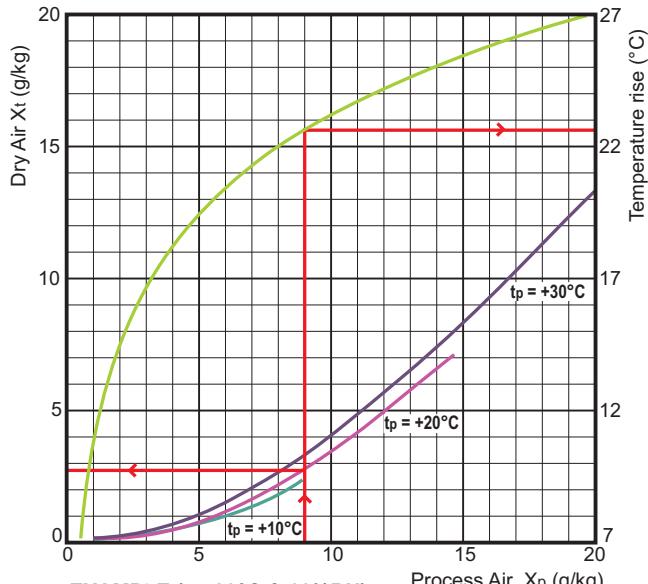
Dehumidification Capacity (kg/h)

Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	0.8	1.2	1.5	2.1	2.9	3.6
15% RH	1.2	1.6	2.4	3.2	4.1	5.2
20% RH	1.6	2.2	3.1	4.2	5.3	6.5
25% RH	1.9	2.8	3.8	5.1	6.3	7.6
30% RH	2.4	3.3	4.6	5.9	7.3	8.4
35% RH	2.8	3.9	5.2	6.7	8.0	9.1
40% RH	3.1	4.3	5.7	7.4	8.7	9.6
45% RH	3.5	4.8	6.3	8.0	9.3	9.9
50% RH	3.9	5.3	6.9	8.6	9.8	10.2
55% RH	4.3	5.8	7.4	9.1	10.2	10.3
60% RH	4.5	6.3	7.8	9.5	10.5	10.4
65% RH	4.9	6.7	8.3	10.0	10.7	10.4
70% RH	5.3	7.1	8.7	10.3	10.9	10.4
75% RH	5.5	7.6	9.1	10.7	11.1	10.4
80% RH	5.9	8.0	9.4	11.0	11.2	10.5
85% RH	6.2	8.4	9.7	11.2	11.3	10.6
90% RH	6.6	8.8	10.0	11.4	11.4	10.8
95% RH	6.8	9.1	10.3	11.6	11.5	11.2
100% RH	7.1	9.4	10.6	11.8	11.6	11.7

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

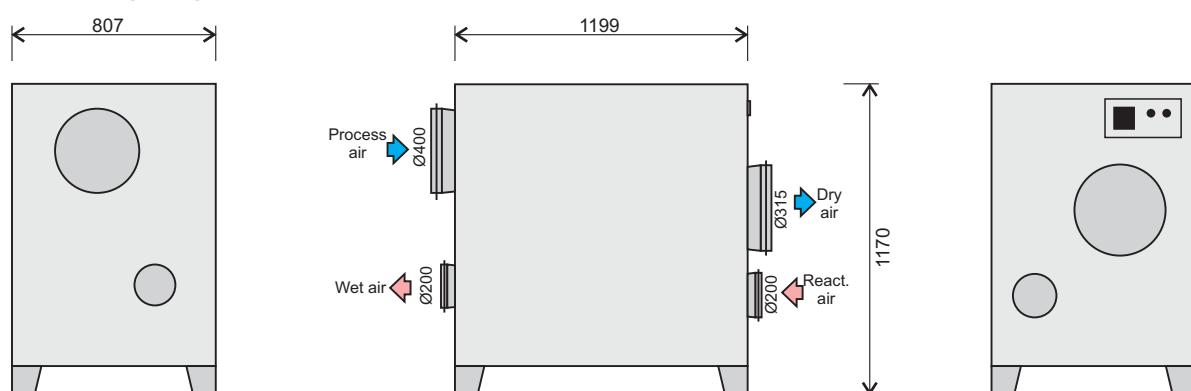
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 2.8 \text{ g/kg}$, $t_t = 20 + 22.6 = 42.6^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT2300 DEHUMIDIFIER



The DT2300 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Insulated housing in stainless steel. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard.

Technical Data:

Dry air flow (at 430Pa available external pressure)	2300m ³ /h (639 LPS)
Wet air flow (at 230Pa available external pressure)	500m ³ /h (139 LPS)
Power Supply (3 x 400V, 50Hz)	19kW
Weight	200kg
Max Noise level	71 dB(A)

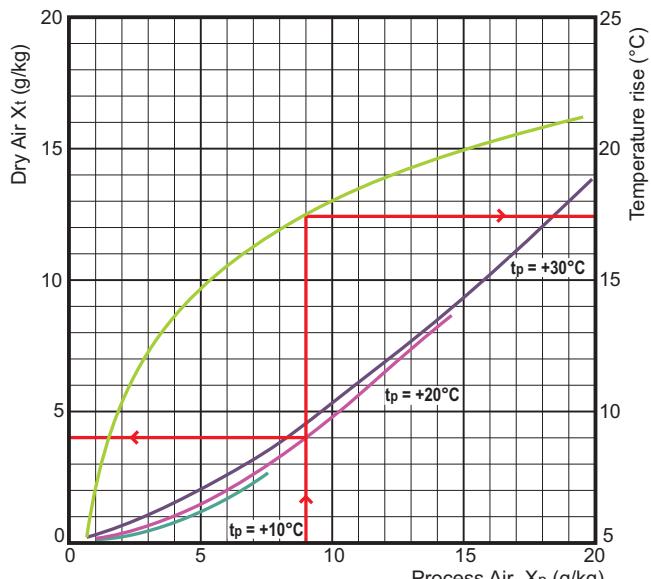


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	1.3	2.0	2.4	3.2	4.2	4.8
15% RH	2.0	2.7	3.8	5.0	5.9	6.8
20% RH	2.8	3.7	5.0	6.4	7.6	8.6
25% RH	3.3	4.6	6.0	7.6	9.0	10.1
30% RH	4.0	5.5	7.2	8.8	10.3	11.3
35% RH	4.7	6.4	8.2	10.0	11.5	12.5
40% RH	5.2	7.0	9.0	10.9	12.4	13.4
45% RH	5.9	7.8	9.8	11.7	13.3	14.1
50% RH	6.5	8.6	10.7	12.5	14.0	14.7
55% RH	7.2	9.3	11.4	13.2	14.6	15.2
60% RH	7.6	10.0	12.0	13.7	15.1	15.6
65% RH	8.2	10.5	12.7	14.3	15.6	15.8
70% RH	8.8	11.1	13.2	14.7	16.0	16.1
75% RH	9.1	11.6	13.7	15.1	16.4	16.2
80% RH	9.7	12.1	14.1	15.4	16.7	16.4
85% RH	10.2	12.6	14.4	15.7	17.1	16.5
90% RH	10.7	13.0	14.8	15.9	17.5	16.7
95% RH	11.0	13.3	15.0	16.2	17.9	16.9
100% RH	11.4	13.6	15.2	16.3	18.4	17.1

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

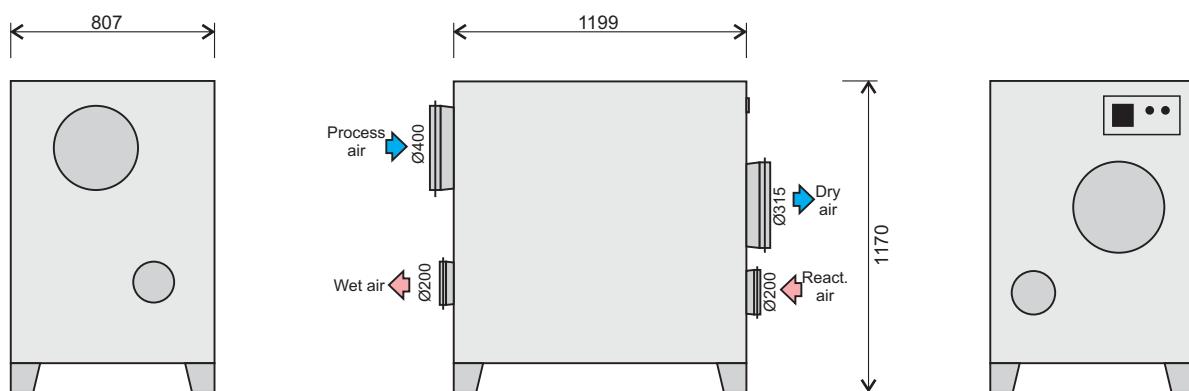
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 4 \text{ g/kg}$, $t_t = 20 + 17.4 = 37.4^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT3300 DEHUMIDIFIER



DT3300 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Insulated housing in stainless steel. PTC (Positive Temperature Control) Reactivation heater, eliminates the risk for overheating and allows stepless capacity control. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard.

Technical Data:

Dry air flow (at 450Pa available external pressure)	3300m³/h (917 LPS)
Wet air flow (at 180Pa available external pressure)	550m³/h (153 LPS)
Power Supply (3 x 400V, 50Hz)	20.6kW
Weight	205kg
Max Noise level	70.4 dB(A)

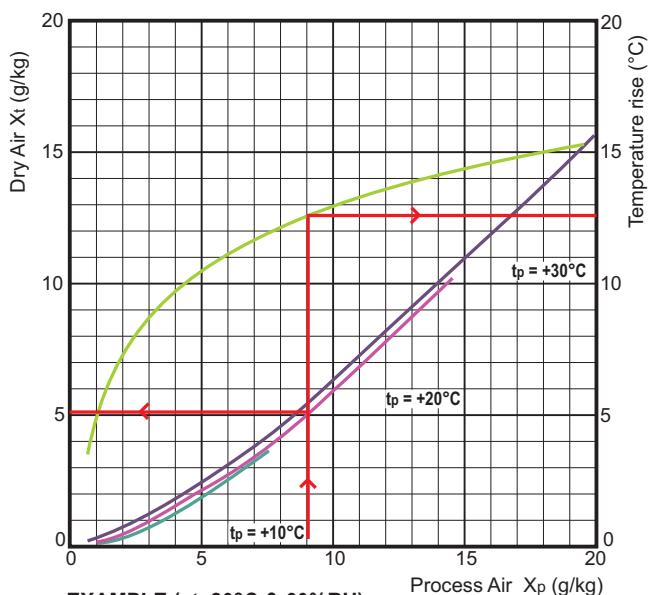


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	1.6	2.5	2.9	3.8	4.8	5.2
15% RH	2.6	3.4	4.7	5.8	6.5	7.2
20% RH	3.5	4.6	6.0	7.3	8.3	9.0
25% RH	4.2	5.7	7.2	8.7	9.8	10.5
30% RH	5.0	6.8	8.5	9.8	11.1	11.8
35% RH	5.9	7.8	9.5	11.0	12.2	13.0
40% RH	6.4	8.5	10.3	11.9	13.1	13.9
45% RH	7.2	9.3	11.1	12.7	13.9	14.7
50% RH	8.0	10.1	12.0	13.5	14.6	15.4
55% RH	8.7	10.8	12.6	14.1	15.2	16.0
60% RH	9.2	11.5	13.1	14.6	15.7	16.4
65% RH	9.8	12.0	13.7	15.1	16.1	16.8
70% RH	10.4	12.5	14.1	15.5	16.5	17.2
75% RH	10.8	13.0	14.5	15.9	16.9	17.6
80% RH	11.3	13.4	14.9	16.2	17.3	18.0
85% RH	11.8	13.8	15.2	16.6	17.7	18.5
90% RH	12.2	14.1	15.5	16.9	18.2	19.0
95% RH	12.5	14.3	15.7	17.3	18.8	19.6
100% RH	12.8	14.5	16.0	17.7	19.4	20.3

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

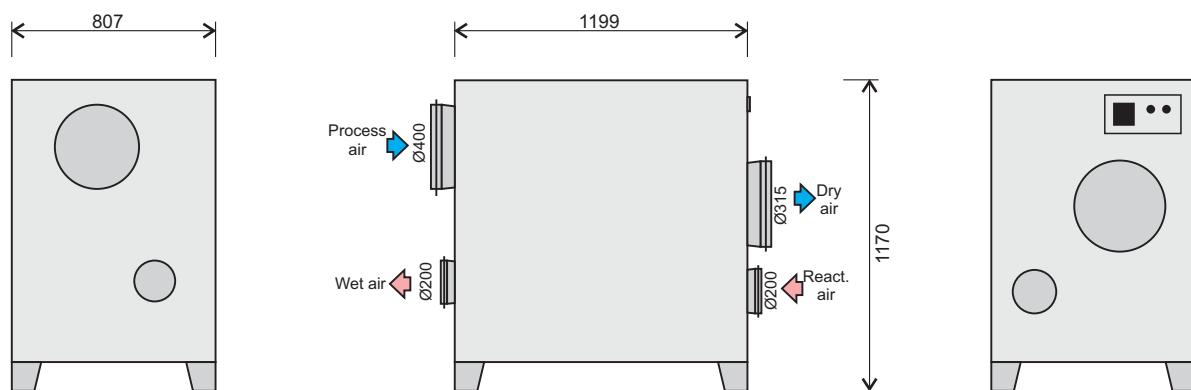
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: Xp = 8.7 g/kg, tp = + 20°C giving
Dry air: Xt = 5.2 g/kg, tt = 20 + 12.6 = 32.6°C

Dimensions (mm)



DEHUTECH

DT3500 DEHUMIDIFIER



DT3500 desiccant dehumidifier is delivered as a complete unit with EC-fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Insulated housing in stainless steel. PTC (Positive Temperature Control) Reactivation heater eliminates the risk for overheating and allows stepless capacity control. Built-in PLC with touch screen as standard. Step-less control via 0-10V signal. Rotation guard, filter alarm, run-time-meter and service alarm as standard.

Technical Data:

Dry air flow (at 170Pa available external pressure)	3500m³/h (972 LPS)
Wet air flow (at 260Pa available external pressure)	850m³/h (236 LPS)
Power Supply (3 x 400V, 50Hz)	28.7kW
Weight	210kg
Max Noise level	71 dB(A)

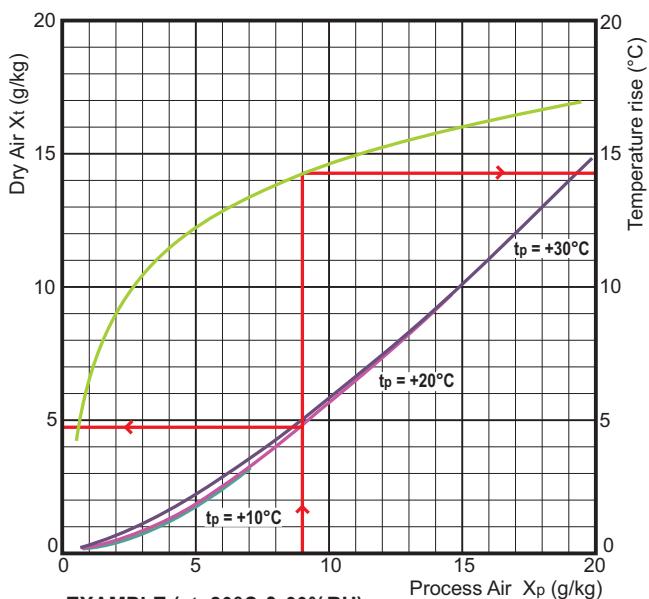


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	2.0	3.0	3.6	4.8	6.3	7.2
15% RH	3.0	4.0	5.6	7.2	8.6	9.9
20% RH	4.1	5.4	7.2	9.1	10.8	12.4
25% RH	4.7	6.6	8.6	10.7	12.7	14.3
30% RH	5.7	7.8	10.1	12.2	14.3	15.9
35% RH	6.6	8.9	11.2	13.6	15.6	17.3
40% RH	7.2	9.7	12.3	14.7	16.6	18.4
45% RH	8.1	10.7	13.2	15.6	17.5	19.2
50% RH	9.0	11.6	14.2	16.5	18.2	19.9
55% RH	9.8	12.5	15.0	17.2	18.7	20.4
60% RH	10.3	13.2	15.6	17.7	19.1	20.8
65% RH	11.0	13.8	16.3	18.2	19.3	21.1
70% RH	11.7	14.4	16.8	18.6	19.5	21.3
75% RH	12.1	15.0	17.3	19.0	19.7	21.6
80% RH	12.7	15.5	17.6	19.3	19.8	21.9
85% RH	13.3	15.9	17.9	19.6	20.0	22.2
90% RH	13.7	16.2	18.2	19.9	20.1	22.7
95% RH	14.1	16.4	18.4	20.2	20.4	23.3
100% RH	14.5	16.6	18.5	20.5	20.8	24.2

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

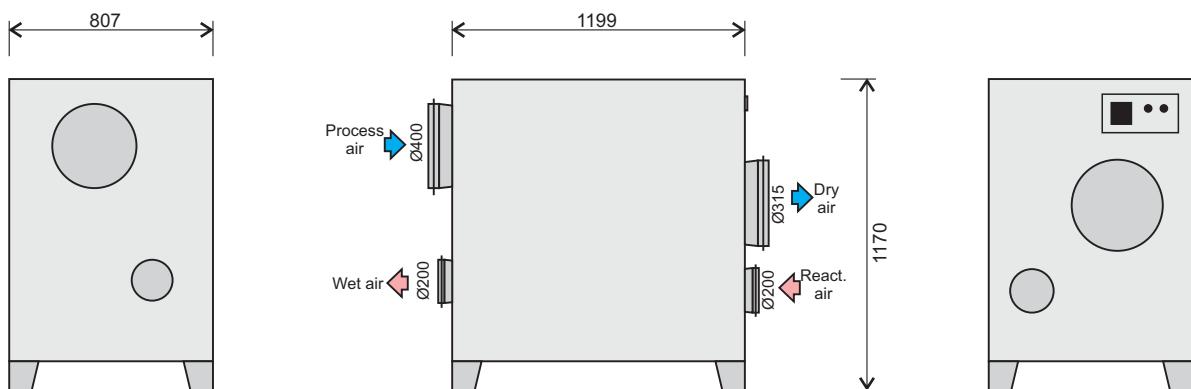
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 4.7 \text{ g/kg}$, $t_t = 20 + 14.13 = 34.3^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT4500 DEHUMIDIFIER

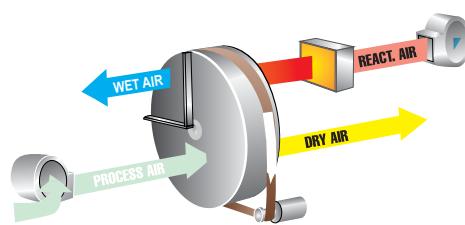


DT4500 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz).

Insulated powder coated casing. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard. Reactivation heater type according to customer specifications

Technical Data:

Dry air flow (at 800Pa available external pressure)	4500m³/h (1250 LPS)
Wet air flow (at 300Pa available external pressure)	1400m³/h (388 LPS)
Power Supply (3 x 400V, 50Hz)	40.8kW
Weight	520kg
Max Noise level	72 dB(A)

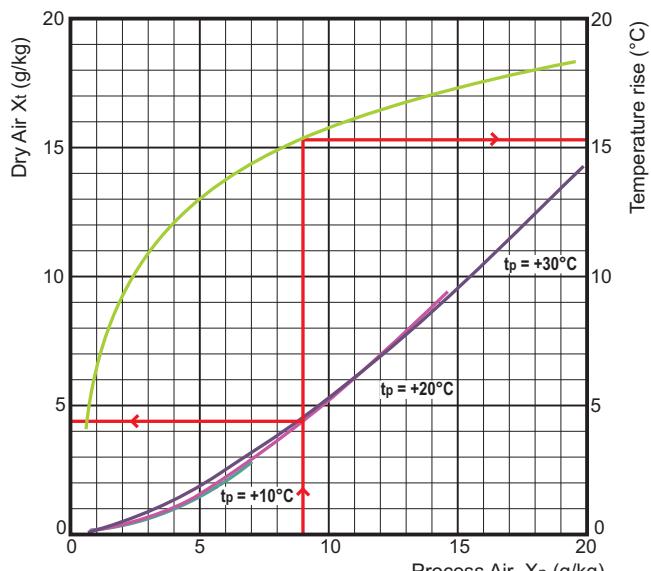


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	2.5	3.9	4.8	6.4	8.5	10.0
15% RH	3.9	5.2	7.4	9.6	11.7	13.8
20% RH	5.2	6.9	9.4	12.1	14.8	17.3
25% RH	6.0	8.6	11.2	14.4	17.4	20.1
30% RH	7.3	10.1	13.3	16.4	19.7	22.4
35% RH	8.5	11.6	14.9	18.5	21.6	24.4
40% RH	9.3	12.7	16.4	20.0	23.2	26.0
45% RH	10.5	14.1	17.8	21.4	24.6	27.3
50% RH	11.6	15.4	19.3	22.7	25.6	28.3
55% RH	12.7	16.6	20.4	23.7	26.4	29.1
60% RH	13.4	17.7	21.4	24.6	27.1	29.7
65% RH	14.4	18.5	22.4	25.3	27.6	30.2
70% RH	15.4	19.5	23.2	25.9	27.9	30.6
75% RH	16.0	20.3	24.0	26.4	28.2	30.9
80% RH	16.8	21.1	24.5	26.8	28.4	31.3
85% RH	17.7	21.8	24.9	27.1	28.6	31.7
90% RH	18.4	22.3	25.3	27.3	28.7	32.2
95% RH	18.9	22.7	25.6	27.5	29.0	32.9
100% RH	19.5	23.0	25.7	27.7	29.3	33.9

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

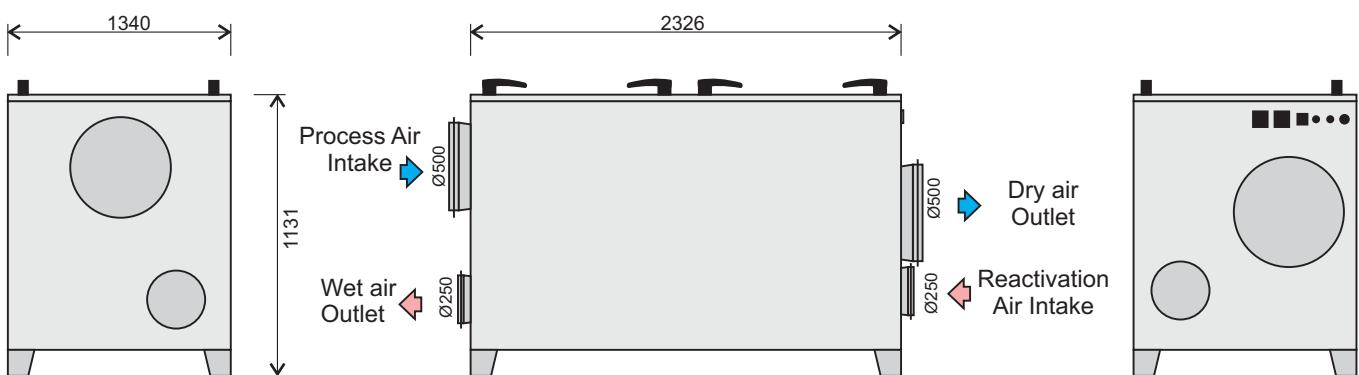
Capacity Diagram



EXAMPLE (at 20°C & 60%RH) :

Process air: $X_p = 8.7 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 4.4 \text{ g/kg}$, $t_t = 20 + 15.4 = 35.4^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT5800 DEHUMIDIFIER



DT5800 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz).

Insulated powder coated casing. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard. Reactivation heater type according to customer specifications

Technical Data:

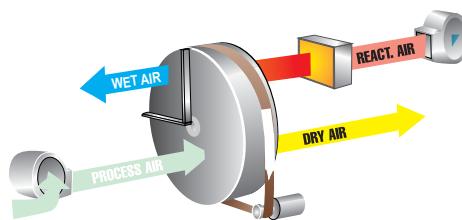
Dry air flow **5800m³/h (1610 LPS)**
 (at 250Pa available external pressure)

Wet air flow **1400m³/h (388 LPS)**
 (at 300Pa available external pressure)

Power Supply **44.8kW**
 (3 x 400V, 50Hz)

Weight **520kg**

Max Noise level **72 dB(A)**



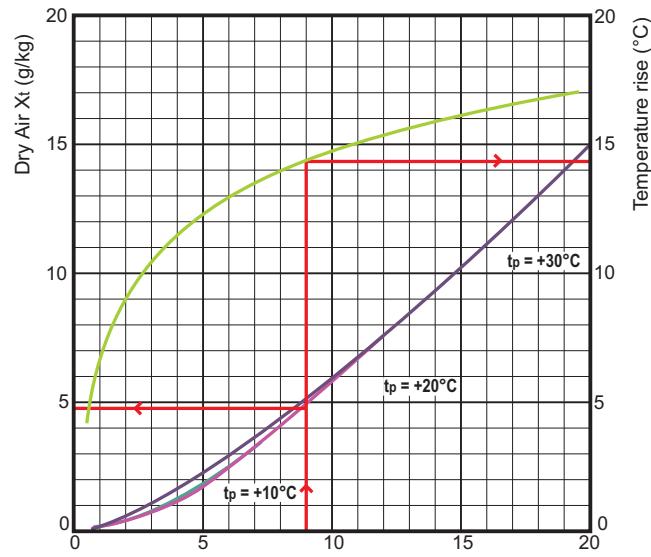
Dehumidification Capacity (kg/h)

Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	3.3	5.0	6.0	8.0	10.5	12.0
15% RH	5.0	6.7	9.3	12.0	14.2	16.5
20% RH	6.7	8.9	11.9	15.1	17.9	20.5
25% RH	7.8	11.0	14.2	17.8	21.0	23.7
30% RH	9.4	12.9	16.7	20.2	23.6	26.4
35% RH	11.0	14.8	18.6	22.6	25.8	28.7
40% RH	12.0	16.1	20.3	24.3	27.6	30.4
45% RH	13.5	17.7	21.9	25.9	29.0	31.9
50% RH	14.8	19.2	23.6	27.3	30.1	32.9
55% RH	16.2	20.6	24.8	28.4	30.9	33.8
60% RH	17.0	21.9	25.9	29.3	31.6	34.4
65% RH	18.2	22.8	27.0	30.2	32.0	34.9
70% RH	19.3	23.9	27.8	30.9	32.4	35.3
75% RH	20.0	24.8	28.6	31.5	32.6	35.8
80% RH	21.0	25.6	29.2	32.0	32.8	36.2
85% RH	22.0	26.3	29.7	32.5	33.1	36.8
90% RH	22.8	26.9	30.1	32.9	33.4	37.6
95% RH	23.3	27.2	30.4	33.5	33.8	38.7
100% RH	24.0	27.5	30.7	34.0	34.4	40.0

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

Capacity Diagram

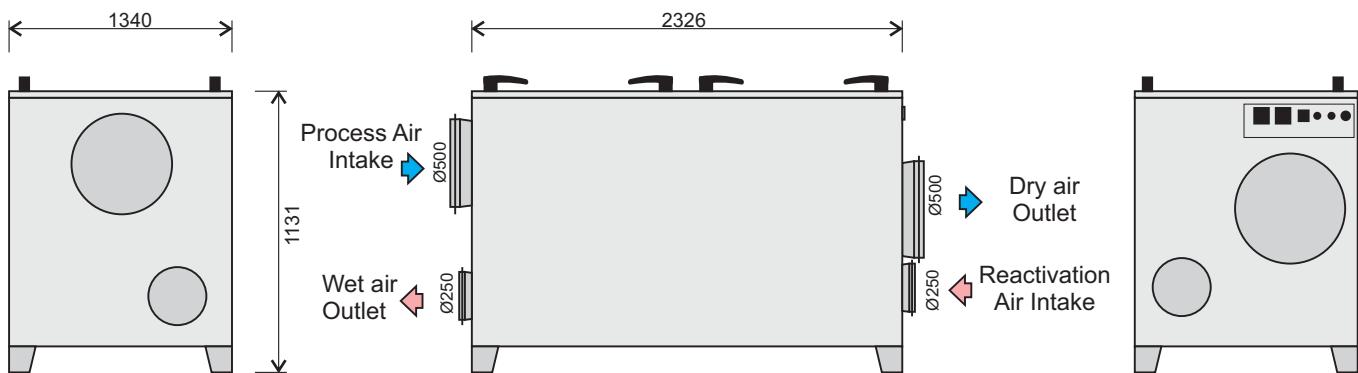


EXAMPLE (at 20°C & 9.0 g/kg) :

Process air: X_p = 9 g/kg, t_p = + 20°C giving

Dry air: X_t = 4.7 g/kg, t_t = 20 + 14.3 = 34.3°C

Dimensions (mm)



DEHUTECH

DT6000 DEHUMIDIFIER



DT6000 desiccant dehumidifier is delivered as a complete units with fans, filters, rotor and controls. The dehumidifier is ready for site installation, connection to standard-size ducting and electrical mains (3 x 400V 50 Hz) and external sensors. Insulated housing with panels and inspection doors. Possible to transport by forklift.

Internal purge zone reducing energy consumption and increasing the capacity. PLC Controller available as an optional extra.

Technical Data:

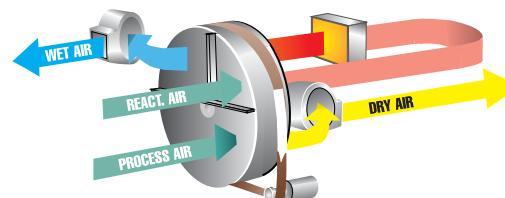
Dry air flow **6000m³/h (1667 LPS)**
 (at 440Pa available external pressure)

Wet air flow **1700m³/h (472 LPS)**
 (at 325Pa available external pressure)

Power Supply **54.2kW**
 (3 x 400V, 50Hz)

Weight **900kg**

Max Noise level **73 dB(A)**



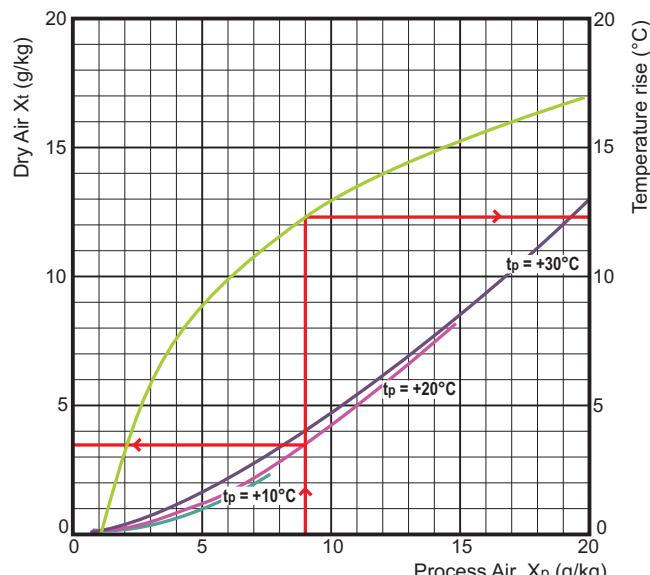
Dehumidification Capacity (kg/h)

Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	3.3	5.3	6.5	8.8	11.6	13.5
15% RH	5.5	7.4	10.5	13.6	16.5	19.4
20% RH	7.6	10.1	13.5	17.5	21.3	24.8
25% RH	8.9	12.6	16.4	21.0	25.6	29.2
30% RH	10.8	15.0	19.7	24.3	29.4	33.0
35% RH	12.7	17.3	22.2	27.7	32.7	36.4
40% RH	13.9	18.9	24.5	30.4	35.6	39.0
45% RH	15.7	21.0	26.7	32.8	38.1	41.4
50% RH	17.3	23.0	29.2	35.3	40.2	43.1
55% RH	19.0	24.9	31.1	37.2	42.0	44.5
60% RH	20.0	26.7	32.8	38.9	43.6	45.5
65% RH	21.6	27.9	34.7	40.7	45.0	46.3
70% RH	23.1	29.6	36.1	42.0	46.1	46.8
75% RH	24.0	31.1	37.7	43.4	47.1	47.1
80% RH	25.5	32.5	38.9	44.4	48.1	47.3
85% RH	26.8	33.9	40.0	45.4	48.9	47.4
90% RH	28.2	35.2	41.2	46.2	49.6	47.5
95% RH	29.1	36.2	42.0	46.9	50.5	47.6
100% RH	30.4	37.4	42.9	47.5	51.3	47.8

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

Capacity Diagram

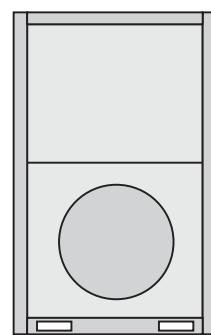
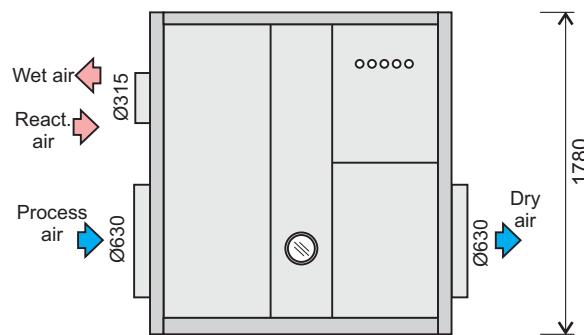
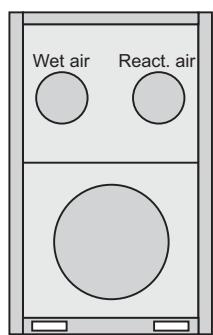


EXAMPLE (at 20°C & 9.0 g/kg) :

Process air: $X_p = 9 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving

Dry air: $X_t = 3.5 \text{ g/kg}$, $t_t = 20 + 17.4 = 37.4^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT7000 DEHUMIDIFIER



DT7000 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Insulated powder coated casing. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard. Reactivation heater type according to customer specifications

Technical Data:

Dry air flow (at 250Pa available ext. Pressure)	7000m³/h (1944 LPS)
Wet air flow (at 250Pa available ext. Pressure)	2200m³/h (611 LPS)
Power Supply (3 x 400V, 50Hz)	65.5kW
Max Noise level	72 dB(A)
Weight	540kg

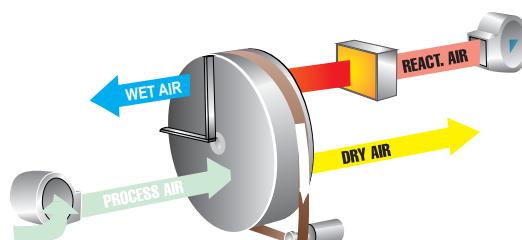


Dehumidification Capacity (kg/h)

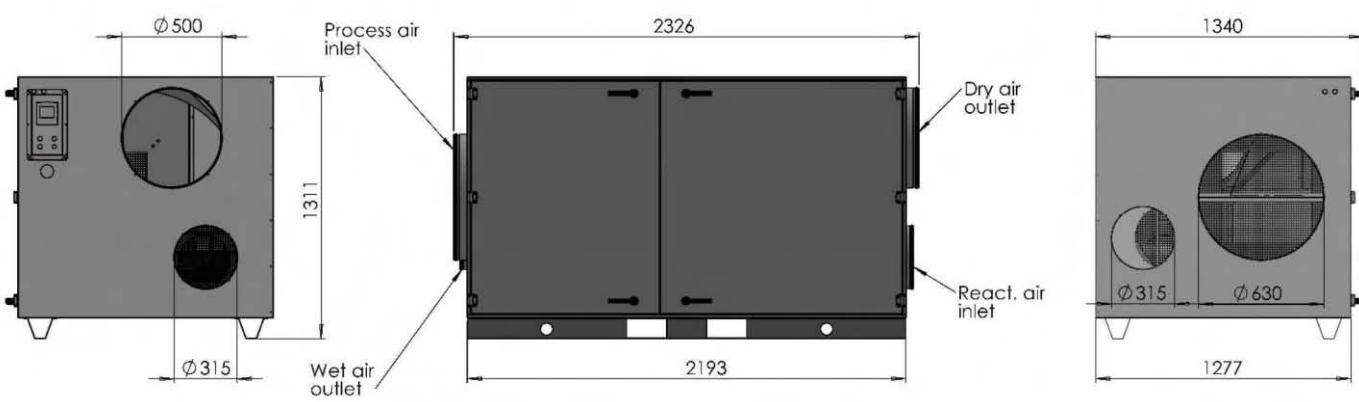
Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	4.7	6.5	8.7	10.5	12.7	16.1
15% RH	5.7	7.8	11.9	14.5	18.4	21.6
20% RH	8.0	10.8	14.7	19.4	22.5	25.3
25% RH	9.6	13.8	17.4	22.3	27.0	30.0
30% RH	11.9	16.7	21.8	26.9	31.4	33.8
35% RH	14.2	18.8	24.8	29.7	33.9	36.4
40% RH	16.5	21.6	27.6	33.2	37.1	39.2
45% RH	17.9	24.8	30.8	35.8	38.8	41.1
50% RH	20.1	26.6	33.2	38.0	41.2	42.9
55% RH	21.9	29.1	35.5	40.2	43.0	44.9
60% RH	24.3	31.4	37.6	42.2	44.4	46.3
65% RH	25.6	33.3	39.8	43.6	45.8	47.6
70% RH	27.3	35.2	41.2	44.8	47.3	49.1
75% RH	28.9	37.1	43.0	46.2	48.5	50.4
80% RH	30.8	38.1	44.3	47.3	49.7	51.5
85% RH	32.7	40.6	45.4	48.5	50.6	52.4
90% RH	34.1	42.1	46.7	49.3	51.4	53.5
95% RH	35.8	43.3	47.5	50.3	52.5	54.3
100% RH						

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.



Dimensions (mm)



DEHUTECH

DT8000 DEHUMIDIFIER



DT8000 desiccant dehumidifier is delivered as a complete units with fans, filters, rotor and controls. The dehumidifier is ready for site installation, connection to standard-size ducting and electrical mains (3 x 400V 50 Hz) and external sensors. Insulated housing with panels and inspection doors. Possible to transport by forklift. Internal purge zone reducing energy consumption and increasing the capacity. PLC Controller available as an optional extra.

Technical Data:

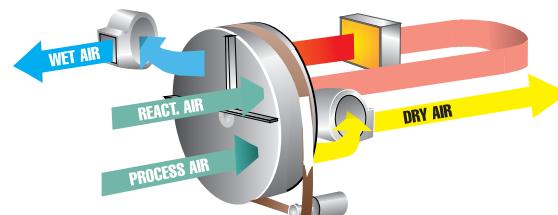
Dry air flow **8000m³/h (2222 LPS)**
 (at 280Pa available external pressure)

Wet air flow **2500m³/h (694 LPS)**
 (at 150Pa available external pressure)

Power Supply **79.5kW**
 (3 x 400V, 50Hz)

Weight **950kg**

Max Noise level **73 dB(A)**



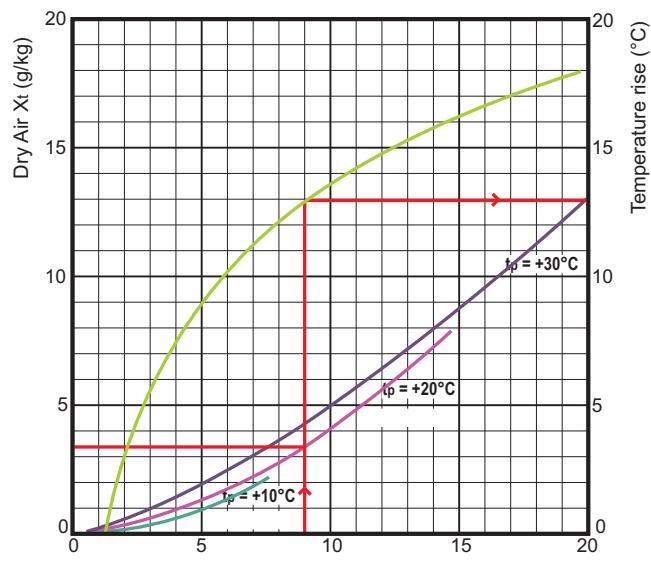
Dehumidification Capacity (kg/h)

Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	4.4	6.8	8.3	11.1	14.6	16.7
15% RH	7.0	9.5	13.3	17.3	20.7	23.8
20% RH	9.7	12.9	17.3	22.3	26.8	30.7
25% RH	11.4	16.3	21.2	27.1	32.4	36.3
30% RH	14.0	19.5	25.6	31.5	37.4	41.3
35% RH	16.6	22.7	29.1	36.1	41.8	46.0
40% RH	18.3	25.0	32.5	39.9	45.8	49.8
45% RH	20.7	28.0	35.7	43.4	49.3	53.3
50% RH	23.2	30.9	39.3	47.1	52.3	56.2
55% RH	25.5	33.6	42.2	50.0	55.0	58.9
60% RH	27.1	36.2	44.9	52.7	57.3	61.0
65% RH	29.3	38.1	47.8	55.4	59.3	63.0
70% RH	31.5	40.6	50.1	57.6	61.0	64.7
75% RH	32.9	42.9	52.6	59.8	62.5	66.2
80% RH	35.0	45.0	54.5	61.4	63.8	67.6
85% RH	36.9	47.0	56.3	63.1	64.8	68.9
90% RH	38.8	48.9	58.1	64.4	65.7	70.3
95% RH	40.0	50.2	59.4	65.6	66.5	71.6
100% RH	41.7	51.8	60.6	66.5	67.2	73.2

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

Capacity Diagram

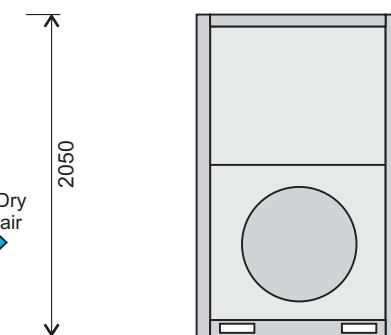
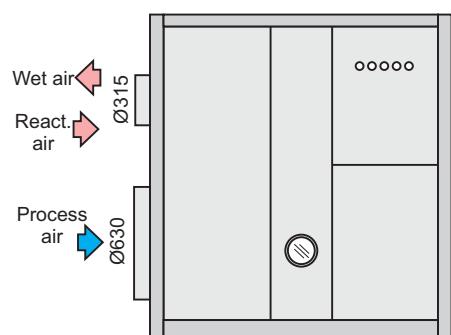
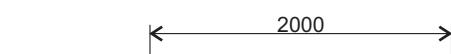
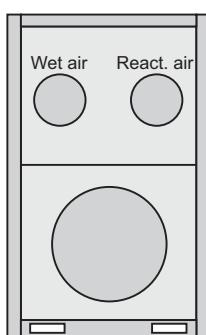


EXAMPLE (at 20°C & 9.0 g/kg) :

Process air: $X_p = 9 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving

Dry air: $X_t = 3.5 \text{ g/kg}$, $t_t = 20 + 18 = 38^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT9000 DEHUMIDIFIER



DT9000 desiccant dehumidifier is delivered as a complete unit with fans, filter, rotor and controls. The dehumidifier is ready for site installation and connection to standard-size ducting and electrical mains (3 x 400V 50Hz). Insulated powder coated casing. Built-in PLC with touch screen as standard. Rotation guard, filter alarm, run-time-meter and service alarm as standard. Reactivation heater type according to customer specifications.

Technical Data:

Dry air flow (at 250Pa available external pressure)	9000m³/h (2500 LPS)
Wet air flow (at 250Pa available external pressure)	2500m³/h (694 LPS)
Power Supply (3 x 400V, 50Hz)	80kW
Max Noise level	72 dB(A)
Weight	550kg

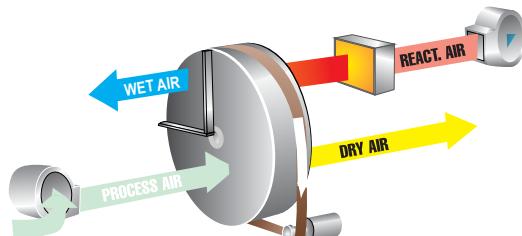


Dehumidification Capacity (kg/h)

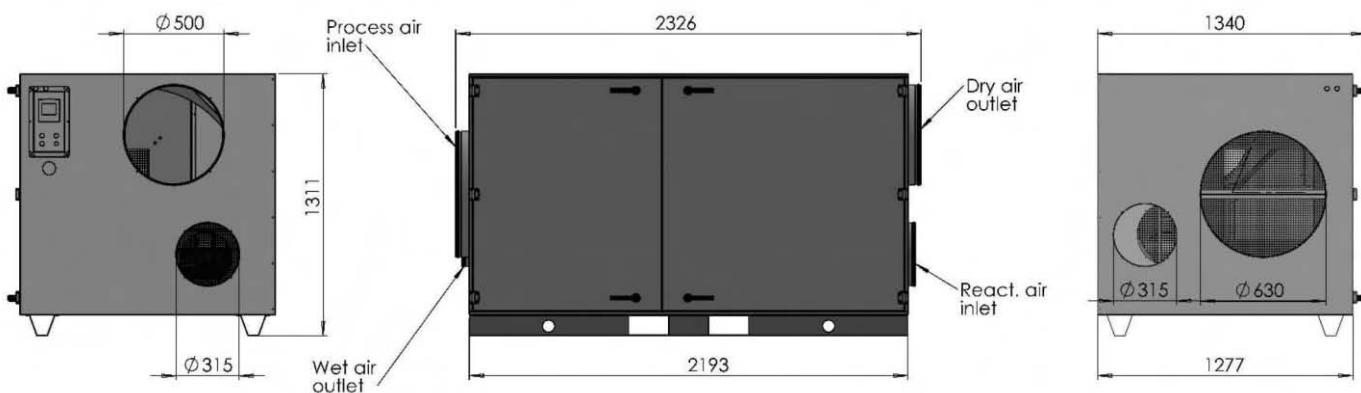
Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	4.8	6.4	8.3	10.9	13.5	15.5
15% RH	7.2	9.7	13.6	16.6	21.1	23.6
20% RH	9.6	13.4	17.9	22.5	26.5	29.7
25% RH	12.5	17.0	22.0	27.3	31.8	34.4
30% RH	14.8	20.6	26.5	31.5	35.7	38.2
35% RH	17.7	23.6	30.0	35.4	39.3	41.4
40% RH	20.0	26.5	33.4	39.2	42.0	44.0
45% RH	22.3	29.6	36.5	42.0	44.9	46.7
50% RH	24.9	32.7	39.9	44.4	47.3	49.0
55% RH	27.1	35.5	42.4	46.9	49.6	51.8
60% RH	29.7	37.9	44.7	49.1	51.5	53.6
65% RH	31.7	40.5	47.2	51.2	53.6	55.6
70% RH	33.7	42.6	49.0	52.7	55.7	57.5
75% RH	36.0	44.8	51.0	54.4	57.1	59.3
80% RH	37.9	46.9	52.6	56.1	58.5	61.0
85% RH	40.1	48.8	53.9	57.6	59.9	62.0
90% RH	41.8	50.6	55.4	58.6	61.5	63.5
95% RH	43.7	51.9	56.6	60.0	62.9	64.8
100% RH	45.5	53.2	58.0	61.3	63.5	65.7

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.



Dimensions (mm)



DEHUTECH

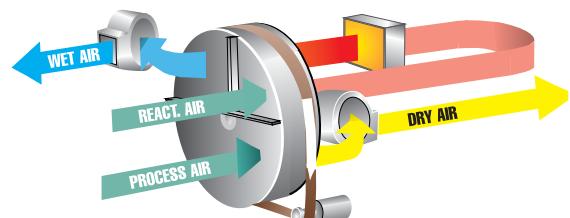
DT13000 DEHUMIDIFIER



DT13000 desiccant dehumidifier is delivered as a complete units with fans, filters, rotor and controls. The dehumidifier is ready for site installation, connection to standard-size ducting and electrical mains (3 x 400V 50 Hz) and external sensors. Insulated housing with panels and inspection doors. Possible to transport by forklift. Internal purge zone reducing energy consumption and increasing the capacity. PLC Controller available as an optional extra.

Technical Data:

Dry air flow (at 590Pa available external pressure)	13000m³/h (3611 LPS)
Wet air flow (at 200Pa available external pressure)	4200m³/h (1167 LPS)
Power Supply (3 x 400V, 50Hz)	143.5kW
Weight	1350kg
Max Noise level	- dB(A)



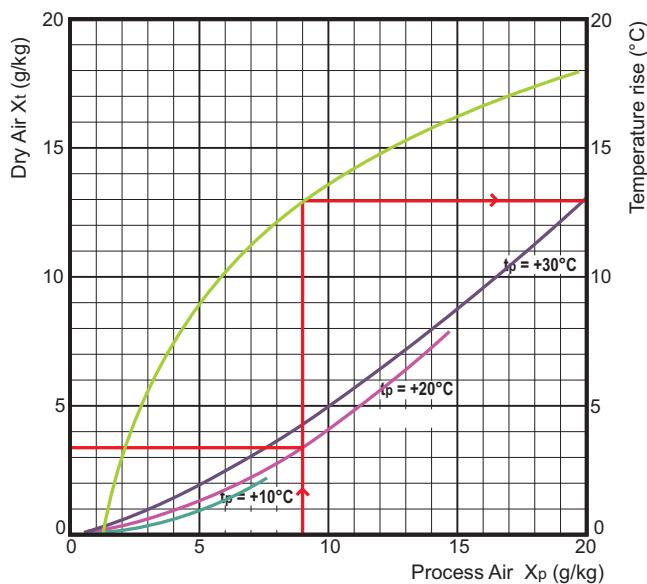
Dehumidification Capacity (kg/h)

Process Air Temperature

	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	7.1	11.5	14.0	18.8	25.1	29.1
15% RH	11.8	16.0	22.5	29.3	35.6	41.8
20% RH	16.2	21.8	29.2	37.8	46.1	53.8
25% RH	19.1	27.3	35.6	45.7	55.6	63.5
30% RH	23.4	32.6	42.8	52.9	63.9	71.9
35% RH	27.5	37.6	48.4	60.5	71.3	79.7
40% RH	30.2	41.3	53.7	66.5	77.8	85.9
45% RH	34.1	46.0	58.7	72.0	83.5	91.5
50% RH	37.9	50.4	64.3	77.6	88.4	95.8
55% RH	41.5	54.7	68.6	82.0	92.6	99.7
60% RH	43.9	58.7	72.7	86.0	96.2	102.7
65% RH	47.4	61.6	77.1	90.0	99.3	105.3
70% RH	50.7	65.3	80.5	93.1	101.9	107.4
75% RH	52.9	68.8	84.2	96.1	104.1	109.2
80% RH	56.1	72.1	87.0	98.5	106.2	110.8
85% RH	59.1	75.3	89.5	100.7	107.9	112.3
90% RH	62.1	78.2	92.2	102.4	109.4	113.9
95% RH	64.0	80.3	94.1	104.0	111.0	115.6
100% RH	66.8	83.0	96.1	105.1	112.5	117.7

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

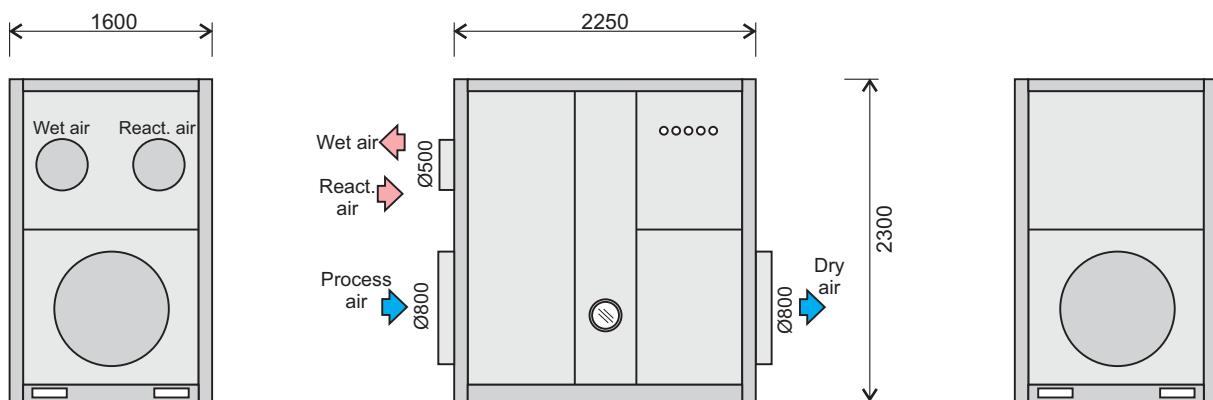
Capacity Diagram



EXAMPLE (at 20°C & 9.0 g/kg):

Process air: $X_p = 9 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 3.5 \text{ g/kg}$, $t_t = 20 + 18 = 38^\circ\text{C}$

Dimensions (mm)



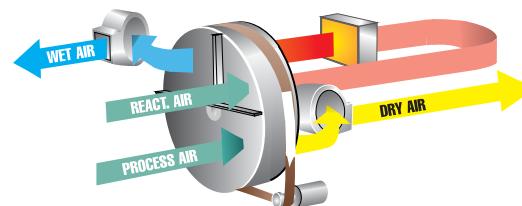
DEHUTECH DT19000 DEHUMIDIFIER



DT19000 desiccant dehumidifier is delivered as a complete units with fans, filters, rotor and controls. The dehumidifier is ready for site installation, connection to standard-size ducting and electrical mains (3 x 400V 50 Hz) and external sensors. Insulated housing with panels and inspection doors. Possible to transport by forklift. Internal purge zone reducing energy consumption and increasing the capacity. PLC Controller available as an optional extra.

Technical Data:

Dry air flow (at 440Pa available external pressure)	19000m³/h (5278 LPS)
Wet air flow (at 450Pa available external pressure)	6000m³/h (1667 LPS)
Power Supply (3 x 400V, 50Hz)	207.5kW
Weight	1700kg
Max Noise level	72 dB(A)

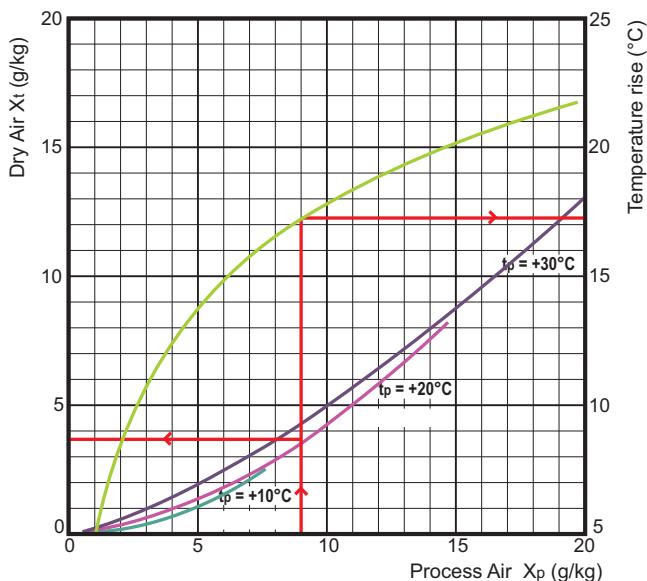


Dehumidification Capacity (kg/h)

Process Air Relative Humidity	Process Air Temperature					
	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	10.1	16.3	19.8	26.6	35.4	41.5
15% RH	16.6	22.6	31.7	41.3	50.0	59.4
20% RH	22.9	30.6	41.0	53.2	64.7	76.3
25% RH	26.9	38.3	49.8	64.1	77.8	89.8
30% RH	32.9	45.6	59.7	74.1	89.5	101.5
35% RH	38.6	52.7	67.5	84.6	99.9	112.1
40% RH	42.4	57.7	74.7	92.9	109.0	120.3
45% RH	47.8	64.2	81.6	100.5	117.0	127.6
50% RH	53.1	70.4	89.2	108.3	124.1	133.0
55% RH	58.2	76.3	95.1	114.5	130.2	137.7
60% RH	61.5	81.9	100.6	120.1	135.5	141.0
65% RH	66.4	86.0	106.7	125.8	140.2	143.7
70% RH	71.1	91.2	111.5	130.3	144.3	145.6
75% RH	74.1	96.1	116.7	134.9	148.0	147.1
80% RH	78.6	100.9	120.7	138.5	151.6	148.1
85% RH	82.9	105.4	124.4	142.2	154.7	149.0
90% RH	87.1	109.7	128.4	145.1	157.7	149.9
95% RH	89.9	112.8	131.5	148.2	160.9	151.0
100% RH	93.9	116.8	134.9	150.7	164.0	152.5

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

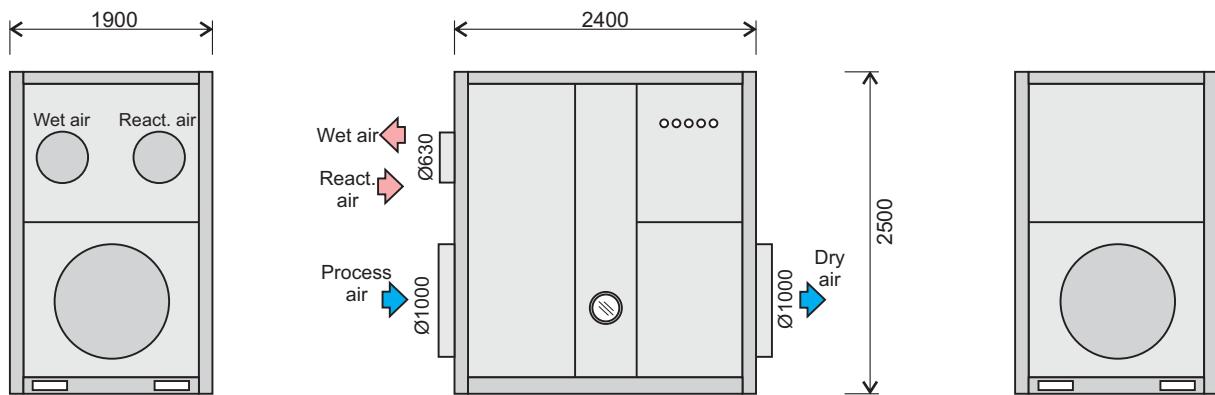
Capacity Diagram



EXAMPLE (at 20°C & 9.0 g/kg) :

Process air: $X_p = 9 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 3.7 \text{ g/kg}$, $t_t = 20 + 17.3 = 37.3^\circ\text{C}$

Dimensions (mm)



DEHUTECH

DT27000 DEHUMIDIFIER

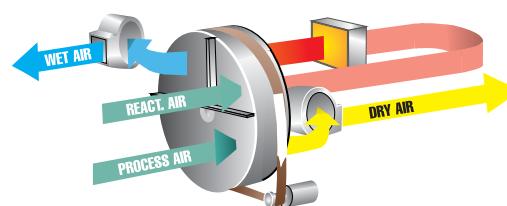


DT27000 desiccant dehumidifier is delivered as a complete units with fans, filters, rotor and controls. The dehumidifier is ready for site installation, connection to standard-size ducting and electrical mains (3 x 400V 50 Hz) and external sensors. Insulated housing with panels and inspection doors. Possible to transport by forklift.

Internal purge zone reducing energy consumption and increasing the capacity. PLC Controller available as an optional extra.

Technical Data:

Dry air flow (at 400Pa available external pressure)	27900m³/h (7750 LPS)
Wet air flow (at 250Pa available external pressure)	6980m³/h (1939 LPS)
Power Supply (3 x 400V, 50Hz)	309kW
Weight	2400kg
Max Noise level	- dB(A)



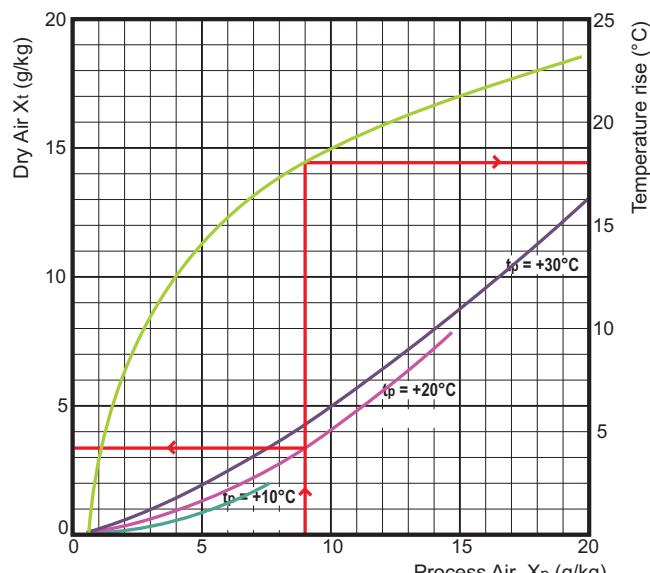
Dehumidification Capacity (kg/h)

Process Air Temperature

Process Air Relative Humidity	5°C	10°C	15°C	20°C	25°C	30°C
10% RH	15.4	23.9	28.8	38.3	50.4	57.7
15% RH	24.4	32.8	46.1	59.6	71.3	82.1
20% RH	33.4	44.7	60.0	77.1	92.7	105.7
25% RH	39.5	56.3	73.5	93.6	112.1	125.3
30% RH	48.6	67.8	89.1	109.0	129.7	142.7
35% RH	57.6	79.0	101.5	125.3	145.6	159.3
40% RH	63.6	87.2	113.4	138.4	160.0	172.9
45% RH	72.5	97.9	124.8	150.6	172.9	185.9
50% RH	81.2	108.2	137.7	163.2	184.4	196.5
55% RH	89.8	118.2	147.8	173.2	194.8	206.5
60% RH	95.4	127.7	157.3	182.3	204.0	214.8
65% RH	103.6	134.6	167.8	191.5	212.3	222.9
70% RH	111.5	143.3	175.9	198.5	219.8	230.2
75% RH	116.6	151.4	184.7	205.3	226.5	236.9
80% RH	124.0	159.0	191.2	210.4	233.2	243.4
85% RH	131.0	166.0	197.0	215.1	238.7	249.8
90% RH	137.6	172.4	203.0	218.2	244.0	256.4
95% RH	141.8	176.7	207.1	220.7	249.4	263.3
100% RH	147.6	181.9	210.9	222.0	254.3	270.8

Note! If the absolute humidity in the dry air is below 0.5 g/kg, (Blue Figures) please contact Avon for further advice.

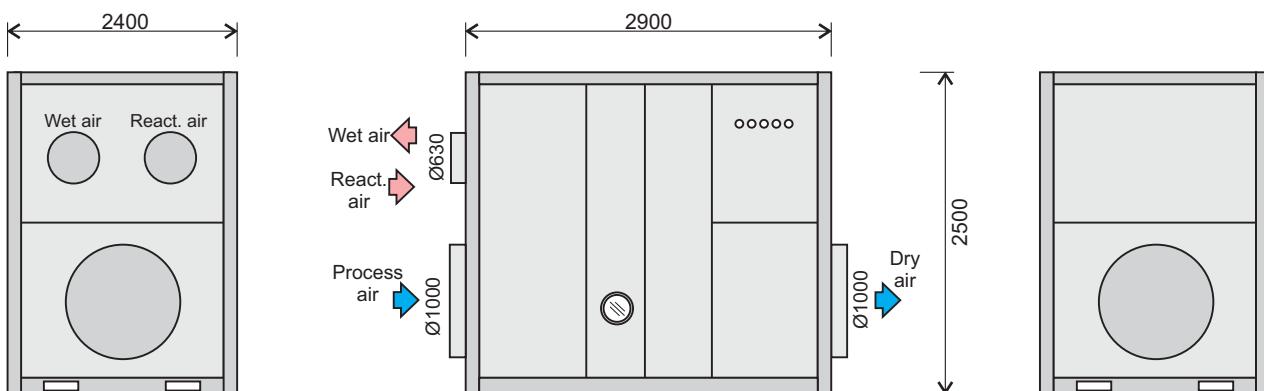
Capacity Diagram



EXAMPLE (at 20°C & 9.0 g/kg) :

Process air: $X_p = 9 \text{ g/kg}$, $t_p = +20^\circ\text{C}$ giving
Dry air: $X_t = 3.7 \text{ g/kg}$, $t_t = 20 + 17.3 = 37.3^\circ\text{C}$

Dimensions (mm)



DEHUTECH DEHUMIDIFIERS FREEZER MODELS

Dehutech has developed a range of special dehumidifiers that can used to dehumidify the air inside freezer rooms.

There are two different versions, one version for installation outside the freezer room and one for installation inside the freezer room. The outside version has a 100mm insulated casing in stainless steel in order to reduce the risk of condensation/icing on the casing, while the inside version has a 30mm insulated casing. Both versions have been optimized to process air at freezer room temperatures down to -32°C.

Especially note energy consumption for the DT3600 freezer room version is 55% lower than for some comparable Dehumidifiers.

The outside version can also be fitted with a air-to-air heat exchanger which is mounted on the dehumidifiers casing. The heat exchanger will drastically reduce the energy consumption of the unit and since it will pre-heat the reactivation air, the life time of the reactivation filter will be increased.



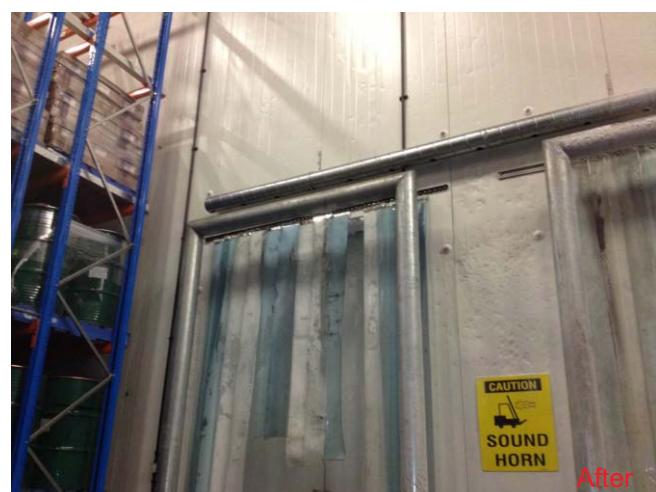
DT 3600 outside
freezer version



DT 3600 inside
freezer version

BENEFITS OF DESICCANT DEHUMIDIFIERS IN FREEZER ROOMS

- Dramatic reduction of floor ice, ice formations around doors, and on refrigeration evaporators (including defrost intervals).
- Increased safety for workers, no slippery/icy floors, no see through plastic curtains.
- Increased product quality, ice and frost on the product is significantly reduced.
- Energy consumption is very low, compared to effectiveness, with no or a dramatically reduced need for defrosting the evaporators.
- Decreased risk of malfunction as with automatic doors.
- To achieve the above requires the desiccant dehumidifier to be correctly installed and sized to suit the actual conditions, under sizing will result in poor performance.



The above photos show before and after comparison photos of an internal freezer door with plastic strip curtains, where "icing" around the door was a big problem. After installing a Dehutech Desiccant Dehumidifier the problem was solved!

DEHUTECH DEHUMIDIFIERS FREEZER MODELS

TECHNICAL DATA

MODEL	DT-1500	DT-2600	DT-3600	DT-4000	DT-5800 (inside version only)
DRY AIR FLOW	1500m3/h	2600m3/h	3600m3/h	4000m3/h	5800m3/h
WET AIR FLOW	220m3/h	300m3/h	350m3/h	600m3/h	1000m3/h
TOTAL POWER CONNECTION	6.1kW	10.5kW	11.9kW	18.8kW	28.8kW
TOTAL POWER CONNECTION (WITH HEAT EXCHANGER)	3.4kW	7.8kW	9.2kW	10.7kW	N/A
MAXIMUM CAPACITY @ -18°C	1.25kg/h	2.12kg/h	2.94kg/h	3.21kg/h	4.52kg/h
DIMENSIONS (INSIDE FREEZER VERSION)	1199 x 807 x 1170mm	1199 x 807 x 1170mm	1199 x 807 x 1070mm	1199 x 807 x 1070mm	1800 x 1160 x 1221mm
DIMENSIONS (OUTSIDE FREEZER VERSION)	1339 x 947 x 1310mm	N/A			



DT 3600 installed outside Freezer Room



DT 1500 installed outside Freezer Room



DT 4000 outside freezer version

CONTROLS

PLC CONTROLLERS

PLC Controllers (Programmable Logic Controllers) with touch screen are built in to the DT1300, DT2300, DT3300 and DT3500 models and are available as an optional extra with other models (DT800 and larger).



EXAMPLE CONTROL PANEL - LOCATED ON END OF CABINET

- Models come with an emergency stop button as standard (DT-1300 and above).
- The controller is equipped with a 3.5" integrated 16-bit color touchscreen & is rated IP66.
- PLC Controllers can be equipped with various types of communication cards for communication via ModBus, BACnet or Web Server.
- Contains functions to control the dehumidifier, runtime meters and alarm function.
- Reactivation fan has a run on facility of 5 minutes after dehumidification stops to cool the heaters down.
- Control functions also include rotation guard for the rotor
- Possible to connect an external 0-10V DC Humidity sensor, so you can control the dehumidifier based on the current RH%. (Dehutech offer a sensor on request)
- Service alarms and component alarms from the PLC are standard.

- Low voltage (24VDC) control circuit
- The PLC is normally supplied to control relative humidity, but can be factory programmed to control Dewpoint - please specify
- Where (DT800 & above) models do not include the PLC as standard, it is available to be fitted to individual dehumidifiers as an optional extra.



The simple to use PLC main page contains three "buttons" and three indication lights...

- **Unit On/Off**.
- **Manual/Auto button.** (In manual mode the unit runs continuously and in automatic mode the unit is run with humidity control or an external on/off signal)
- Continuous process air fan button. (In automatic mode, the process air fan can run continuously by pressing Cont. P.A. Fan)
- Operation indicator light - turns green when the unit is turned on and dehumidification is active.
- Stand by indicator light - light is orange as long as dehumidification is inactive.
- Alarm indicator light.



PTC ELEMENTS

A PTC element is a semiconductor made from a special ceramic material that changes its characteristics depending on temperature. The internal resistance increases with increasing temperature after a defined temperature is reached (reference temperature). The high "Positive Temperature Coefficient" (PTC) gives the PTC element its name.

The characteristics of PTC elements are ideal for heating applications. PTC elements are often referred to as "self regulating".

The ceramic PTC element cannot reach flammable high temperatures because the resistance increases when the temperature of the PTC increases, as such it is self-limiting and the energy cannot pass through.

As the ceramic PTC elements cools down, the resistance decreases and more power/energy can go through.

AIR FILTERS

Aside from the DT160, DT250 and DT440, which only have one air filter, all Dehutech Dehumidifiers are equipped with two separate air filters, one for the Process Air and the other for the Reactivation Air. The filters are positioned at the respective inlets and will clean the air prior to entering the dehumidifier.

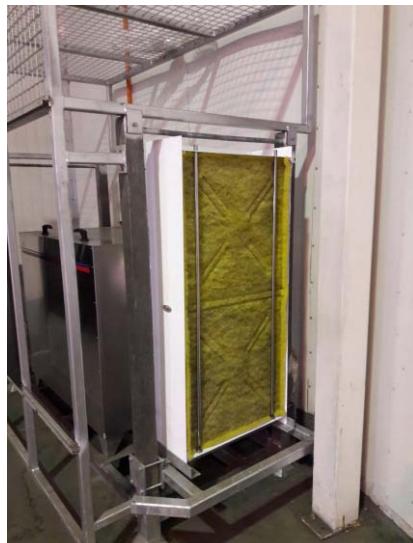
Intervals for cleaning or replacement of the filters will be determined by the amount of dust and particles in the air at the installation site.

We recommend that the filters are checked at least once a month, at least for the first year of a new installation.

Never operate the dehumidifier without the filters, as the rotor can be damaged by dust.

OPTIONAL FILTERS

Additional Air Filters may be required in certain applications where a higher grade or additional protection is required. We are able to custom manufacture filter boxes to suit specific requirements (optional & extra).



An example of a custom made filter box made for a Coolstore installation of Dehutech Dehumidifier. An additional filter was required to prevent fine particles from forklift operations entering the dehumidifiers.

DEHUTECH DEHUMIDIFIERS

EXAMPLE PRINTOUTS

This brochure contains generic performance data for Dehutech Dehumidifiers, which enables a preliminary unit selection, however to be able to ensure the best unit is selected and so the client has further information on the performance, temperature rise and operation of the recommended Dehutech Unit, we provide (at no charge) performance printouts for specific jobs. An Example of the type of printout we provide is shown below, this also includes fan performance data.

To be able to provide a calculation for individual applications, we need to know the Process Air Temperature and Relative Humidity.

DehuTech 1300 Dehumidifier Performance @ 5°C / 40%RH

29 / 03 / 18	
Technical Data:	
Dry air flow (at 260Pa available external pressure)	1300m ³ /h (361 LPS)
Wet air flow (at 150Pa available external pressure)	400m ³ /h (111 LPS)
Power Supply (3 x 400V, 50Hz)	13.6kW
Weight	200kg
Max Noise level	63 dB(A)

Calculation Result:

Process air:

Air Temperature:	5 °C
Relative Humidity:	40 %RH
Absolute Humidity:	2.1 g/kg
Dewpoint:	-7 °C

Dry air:

Air Temperature:	18 °C
Absolute Humidity:	0.14 g/kg
Dewpoint:	-35 °C

Dehumidification Capacity **3.1 kg/h**

Desiccant dehumidifier for drying of air at all conditions but especially suitable for low temperature and low humidity operation. Complete self-contained unit including desiccant rotor, fan, filter thermistor-type reactivation heater, and controls. Stainless steel casing.

Ready for connection to standard size duct, electrical power supply and external humidity sensor.

Dimensions (mm)

Australasia Sole agents -- **AVON ELECTRIC Ltd**
P.O. Box 19748, 25 Taurus Place, Christchurch, New Zealand
Email : info@avonelectric.co.nz Ph : (+64-3) 381-5595 Fx : (+64-3) 381-5596 Web Site : www.avonelectric.co.nz

DehuTech 2000 Dehumidifier Fan Performance Data

Process Air Fan (Dry Air Flow)

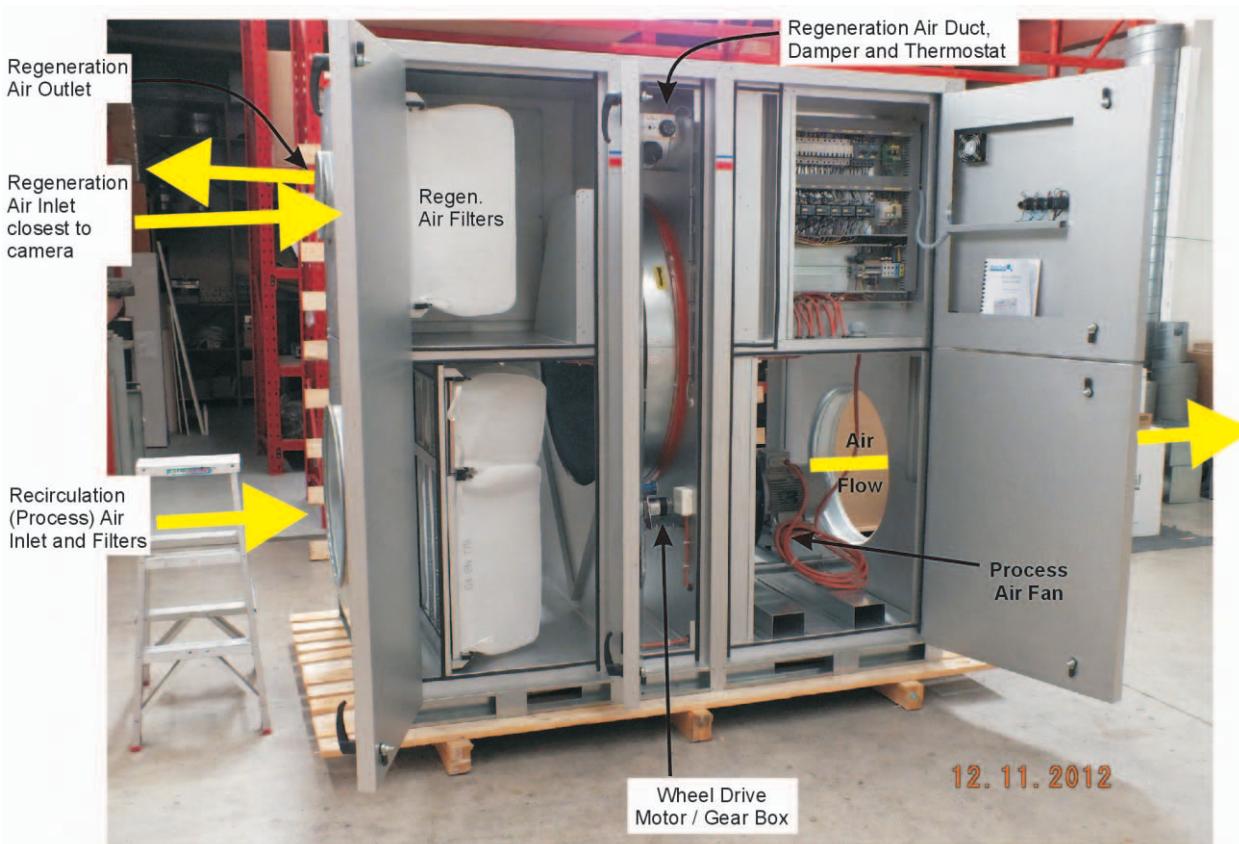
reactivation Air Fan (Wet Air Flow)

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iz Ph : (+64-3) 381-5595 Fx : (+64-3) 381-5596 Web Site : www.avonelectric.co.nz

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DEHUTECH DEHUMIDIFIERS EXAMPLE INSTALLATION

DEHUTECH DT8000
- SUPPLIED TO RIVERLANDS MEATWORKS



DEHUTECH DEHUMIDIFIERS EXAMPLE INSTALLATION

EMIRATES TEAM NZ



Avon has been privileged to supply specialised Heating & Drying equipment to Emirates Team New Zealand since 2002. After NZ challenger **Aotearoa** suffered the *end over end* capsize in Bermuda on 7th June, Avon equipment played a small but vital role assisting the superhuman efforts of the ETNZ Team to restore the wrecked NZ yacht to competitive condition in just over 24 hours. Which resulted in ETNZ Shore Construction Manager Sean Regan to later visit Avon with the 'Cup'.

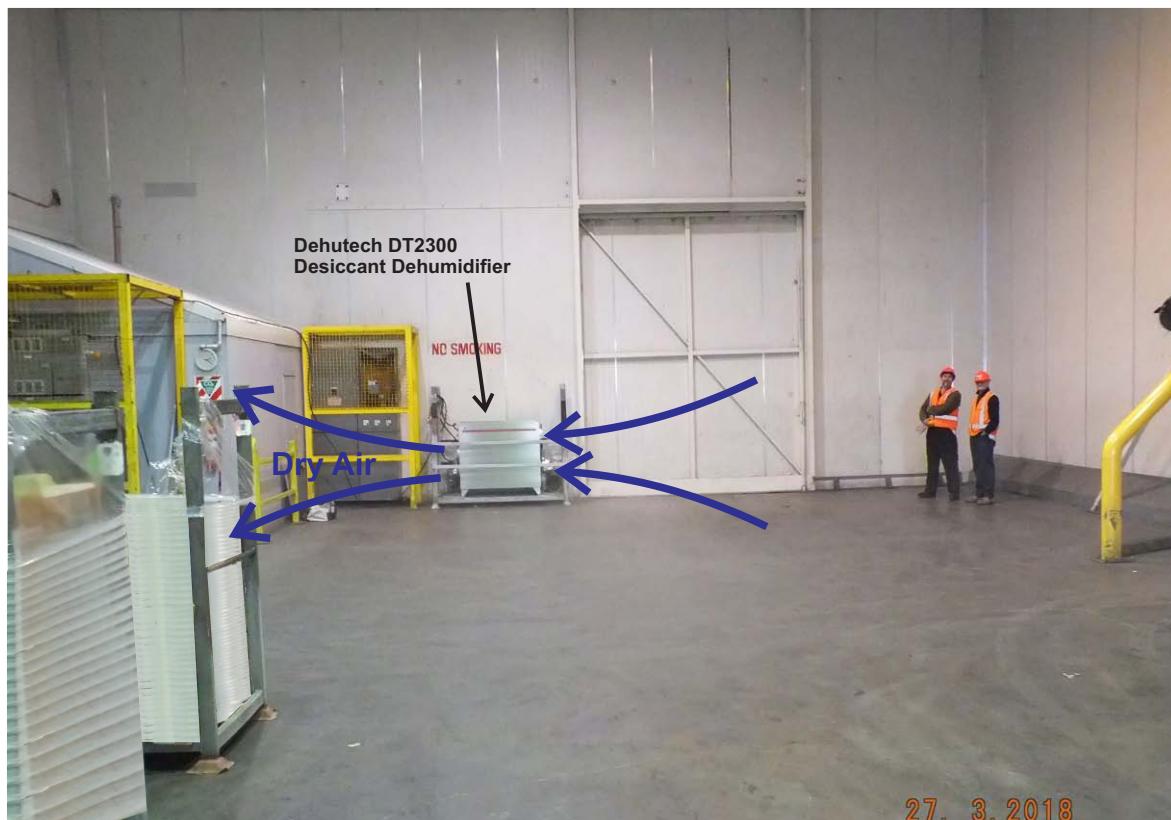


DEHUTECH DEHUMIDIFIERS EXAMPLE INSTALLATION

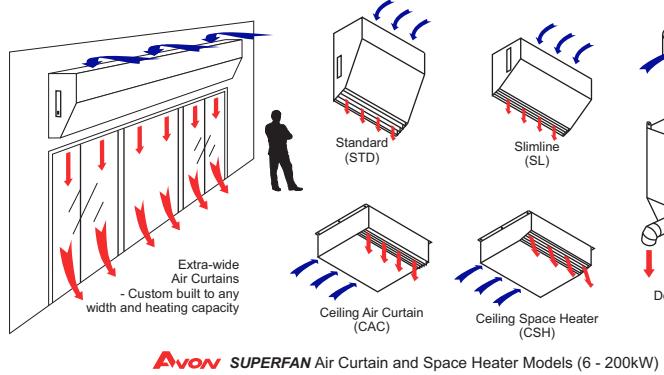
DT2300 INSTALLED IN
MEAT PROCESSING ELA ROOM



DT2300 installed in 10°C ELA Room - 3 x -25°C Freezer doors open into this room. Problem was condensation forming on ceiling, walls & wet floor, and icing in doorways - after 48 hours, no condensation or ice around the freezer doors ever since.

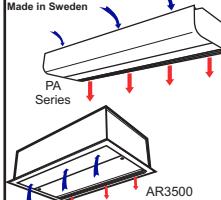


AVON Heated Air Curtains & Space Heaters



AVON SUPERFAN Air Curtain and Space Heater Models (6 - 200kW)

FAICO



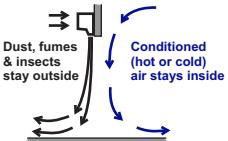
Frico Thermozone Air Curtains for Overdoor – Vertical – Concealed

Electric or Hot Water (e.g. Heat Pump from 40°C). Huge Range for the most discerning Architectural, Commercial, or Industrial sites including Chiller & Freezer Doorways.

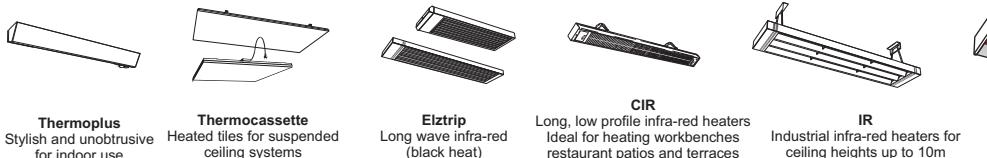
Intelligent Electronic (SIRE) Control Systems for additional Energy Efficiency, 3 yr Warranty.

mars Air Doors

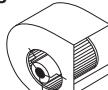
High powered, US made industrial air curtains - to control flying insects, exclude airborne dust and contain conditioned air. Ideal for cool-room or freezer doorways, loading bays, food and beverage factories.



Infra-red Heaters, radiant heating solutions for domestic, commercial and industrial applications

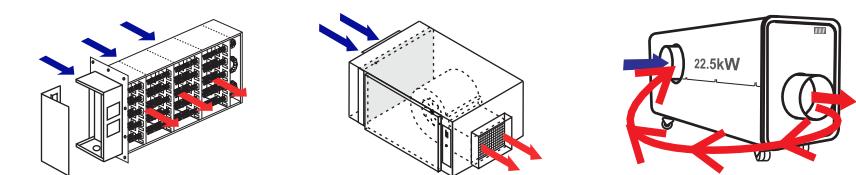


Fans



Torin - Systemair Fischbach - Casals - Sodeca
Direct drive centrifugal fans. EC & Conventional. Up to 20m³/Sec

AVON Direct Hot Air Heaters



ELECTRODUCT

Duct Heaters for ducted systems, process heaters, generator dummy loads etc.

Open wound spiral elements for minimal air-flow resistance. Custom built to any size and capacity.

Available from 1kW to 20,000kW

AVON AIR HANDLERS

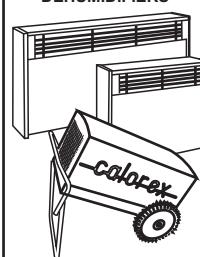
For outdoor air ventilation, process and comfort heating. For indoor or outdoor installation, with or without heating, supply or exhaust. Ventilation for Building Code compliance, integral fresh air/recirc dampers. CO₂ Controlled EC Fan Motors.

Drying rooms, Kilns, Paint Ovens, Spray Booth, Honey & industrial Process Heaters. Air flows from 22l/s to 20m³/s. Temperatures up to 600°C

IES HOT AIR GENERATORS

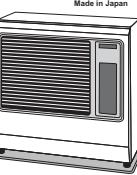
Extremely versatile Hot Air Generators for continuous, non-hazardous* use in Drying Ovens, Hot Rooms, Process Heating, Fibreglass Curing and more. Any enclosed space immediately transformed into a Hot Room. Recirc up to 250°C.

calorex DEHUMIDIFIERS



Dehumidifiers for Swimming Pools, Dry-rooms, Processes. Turn key swimming pool systems up to 10m³/s. Portable models available for hire or sale.

TOYOTOMI

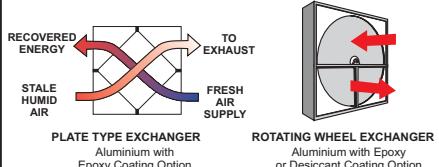


FF95 Diesel Heaters for Homes, Offices, Halls, Bars, Clubs, Schools etc. Very quiet, 9.5kW output. Fuel injection burners operate at 92% efficiency, burns ordinary automotive diesel.

Has fully automatic user friendly programmable controls including "nozzle auto clean".

HEATEX Air-to-Air Heat Exchangers

Energy recovery from any exhaust airstream, HVAC or Process. Temperatures up to 600°C and up to 95% heat recovery.



Heat Recovery Ventilation for Homes, Schools, Clubs, Bars, Offices, Restaurants, Conference Rooms, Theaters, Swimming Pools etc. 100% fresh outdoor air without the extra heating load.

Process Energy Recovery - reduce the running costs of commercial clothes dryers, process dryers (timber, fabric, foodstuffs etc.) - up to 20 m³/sec

Vapour Extraction
Dehumidification
Indirect Evaporative Cooling

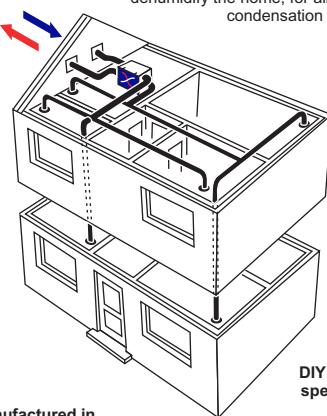


Since 1982 the largest range of Air-to-Air Heat Exchangers in Australasia

HEATEX

CLEANAIRE Heat Recovery Ventilators

Domestic HRV systems ventilate and dehumidify the home, for allergy & condensation control



Manufactured in New Zealand since 1982
6 + 6 year warranty

DIY kits a specialty

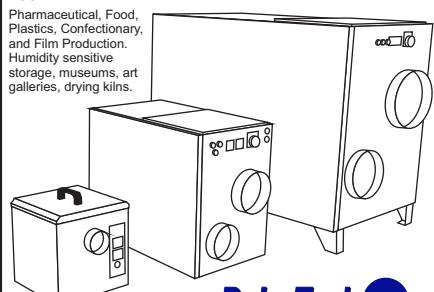
DehuTech (Sweden) Dessicant Dehumidifiers

Dessicant dehumidifiers operate efficiently across a broad range of temperatures, especially at lower temperatures where conventional dehumidifiers fail to perform.

Air flows from 100 to 15,000m³/h, moisture removal rates from 0.6 to 126kg/h - ice removal - down to -35°C.

Applications Include:

Pharmaceutical, Food, Plastics, Confectionary, and Film Production. Humidity sensitive storage, museums, art galleries, drying kilns.



DehuTech

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