

# DEG/P

## Pressurised deaerator



The DEG P pressurised thermophysical deaerator collects the treated make-up water delivered by a suitable treatment system.

The make-up water is controlled by a pneumatic, modulating 2-way valve that receives the signal from the level regulator/indicator positioned on the horizontal tank.

The water is atomized at the top of the degassing tower and falls into circular plates suitably perforated through which the heating steam passes.

On the top part of the turret there is also a fitting for possible system condensate returns and a manual oxygen blowdown valve.

This appliance has a design pressure of 0.5 bar and therefore it is not subject to the provisions of the PED Directive 2014/68/EU.

Provided with:

- vertical degassing turret, manufactured from C steel (stainless steel AISI 304 version also available) flanged to the lower reservoir with stainless steel AISI 304 jagged internal plates
- sheet steel support saddles able to ensure unit support
- insulating coating with high density mineral wool and aluminium sheet finish

Data concerning the **feed water** in the deaerator:

- Inlet water pressure: 1 + 3 bar
- Temperatura dell'acqua in ingresso: 10 + 35 °C

### Standard equipment

Steam regulation unit to maintain the temperature (105°C) in the storage tank including:

- steam regulation modulating valve of the automatic or pneumatic type
- by-pass and shut-off valves
- steam filter
- appropriate steam injectors
- temperature probe

Steam regulation unit to maintain the correct pressure value (0.2-0.4 bar) in the degassing turret including:

- steam regulation modulating valve of the automatic or pneumatic type
- by-pass and shut-off valves
- steam filter
- appropriate steam injectors
- pressure transducer

Water regulation unit to control the level in the storage tank including:

- feed water solenoid valve
- by-pass and shut-off valves
- water filter
- level regulator with probes
- level indicator
- thermometer
- drain valve
- safety valve
- vacuum relief valve

Boiler control panel IP55 1/N ~ 230V 50 Hz

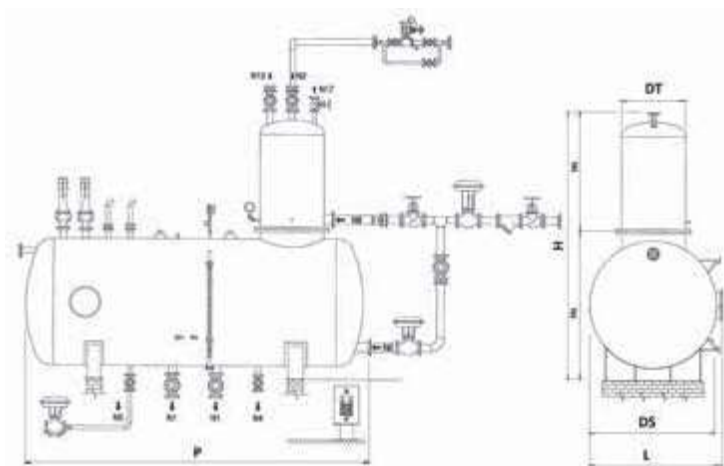
### PRODUCT CODES

| Model       | Code     |
|-------------|----------|
| DEG 1000/P  | 85500323 |
| DEG 2000/P  | 85500325 |
| DEG 3000/P  | 85500320 |
| DEG 5000/P  | 85500401 |
| DEG 8000/P  | 85500038 |
| DEG 15000/P | 85500039 |
| DEG 25000/P | 85500047 |
| DEG 30000/P | 85500045 |
| DEG 40000/P | 85500048 |
| DEG 50000/P | 85500034 |

| Model               | Code     |
|---------------------|----------|
| DEG 1000/P AISI304  | 85500319 |
| DEG 2000/P AISI304  | 85500327 |
| DEG 3000/P AISI304  | 8500322  |
| DEG 5000/P AISI304  | 85500402 |
| DEG 8000/P AISI304  | 85500052 |
| DEG 15000/P AISI304 | 85500054 |
| DEG 25000/P AISI304 | 85500056 |
| DEG 30000/P AISI304 | 85500057 |
| DEG 40000/P AISI304 | 85500058 |
| DEG 50000/P AISI304 | 85500059 |

## TECHNICAL DATA

| Model       | Nominal pressure | Design temperature | Total volume H <sub>2</sub> O | Deaeration capacity | Steam consumption | Empty weight |
|-------------|------------------|--------------------|-------------------------------|---------------------|-------------------|--------------|
|             | bar              | °C                 | lt                            | l/h                 | kg/h              | kg           |
| DEG 1000/P  | 0,5              | 110                | 1000                          | 1000                | 180               | 450          |
| DEG 2000/P  | 0,5              | 110                | 2000                          | 2000                | 360               | 700          |
| DEG 3000/P  | 0,5              | 110                | 3000                          | 4500                | 810               | 980          |
| DEG 5000/P  | 0,5              | 110                | 5000                          | 7500                | 1350              | 1280         |
| DEG 8000/P  | 0,5              | 110                | 8000                          | 12000               | 2160              | 2500         |
| DEG 15000/P | 0,5              | 110                | 15000                         | 22500               | 4050              | 3800         |
| DEG 25000/P | 0,5              | 110                | 25000                         | 37500               | 6750              | 5250         |
| DEG 30000/P | 0,5              | 110                | 30000                         | 45000               | 8100              | 6550         |
| DEG 40000/P | 0,5              | 110                | 40000                         | 60000               | 10800             | 8000         |
| DEG 50000/P | 0,5              | 110                | 50000                         | 75000               | 13500             | 9900         |



## DIMENSIONS

| Model       | H    | HS   | Ht   | L    | DS   | Dt   | P     | N1    | N2    | N4    | N5    | N6      | N13   | N17   |
|-------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|---------|-------|-------|
|             | mm   | mm   | mm   | mm   | mm   | mm   | mm    | DN/in | DN/in | DN/in | DN/in | DN/in   | DN/in | DN/in |
| DEG 1000/P  | 2500 | 1400 | 1100 | 1030 | 950  | 350  | 2140  | 40    | 25    | 50    | 1"1/4 | 40      | 40    | 2"    |
| DEG 2000/P  | 2800 | 1550 | 1250 | 1300 | 1100 | 400  | 2380  | 40    | 25    | 50    | 1"1/4 | 40      | 40    | 2"    |
| DEG 3000/P  | 3050 | 1550 | 1500 | 1600 | 1460 | 400  | 2720  | 40    | 25    | 50    | 1"1/4 | 40      | 40    | 2"    |
| DEG 5000/P  | 3350 | 1590 | 1760 | 1410 | 1250 | 800  | 4550  | 40    | 32    | 50    | 50    | 50      | 80    | 2"    |
| DEG 8000/P  | 3750 | 1950 | 1800 | 1760 | 1600 | 800  | 4450  | 80    | 32    | 50    | 50    | 100     | 80    | 50    |
| DEG 15000/P | 4250 | 2350 | 1900 | 2160 | 2000 | 1000 | 5400  | 100   | 32    | 50    | 50    | 125/100 | 80    | 40    |
| DEG 25000/P | 5300 | 2600 | 2700 | 2360 | 2200 | 1400 | 7000  | 100   | 32    | 50    | 100   | 125     | 125   | 65    |
| DEG 30000/P | 5550 | 2750 | 2800 | 2500 | 2340 | 1600 | 7250  | 100   | 80    | 50    | 100   | 125     | 125   | 65    |
| DEG 40000/P | 5900 | 2800 | 3100 | 2550 | 2390 | 1800 | 9300  | 125   | 100   | 50    | 100   | 150     | 125   | 65    |
| DEG 50000/P | 6000 | 2800 | 3200 | 2550 | 2390 | 2000 | 11400 | 125   | 100   | 50    | 100   | 250     | 150   | 65    |