

UNITECH AIRWASHER – STANDARD DESCRIPTION

Washer unit casing of heavy fibreglass reinforced (FRP) single wall 4 - 8 mm thick (depending on washer size), or sandwich design with PU-foam in between.

Panels are flanged and permanently sealed with PU-based sealing compound. If necessary the casing can be split into panels for assembly on site. Sandwich floor plate standard with PU-foam layer in between, sump section with all required connections for overflow, drain, supply and return pipe to external pump or cut out for flanged pump.

Working pressures for standard casing up to 1000 Pa. Higher pressure possible with additional reinforcements of the panels.

The **air-equaliser** at the washer entrance is constructed of vertical profiles.

The **water eliminator** at the washer downstream side is constructed of vertical profiles. The type of profile is selected depending on the air velocity and temperature.

The following designs and materials are available:

- I. PPTV resistant up to 110 oC.
- II. Special profiles for higher temperatures (galvanized or stainless Steel)

All bracketing and spacer profiles for the fixing of the profiles are in standard design made of fibreglass or stainless steel.

The spray nozzle, type HL, is made of shatter resistant synthetic material resistant up to 130oC, constructed as centrifugal-Hollow-cone nozzle, selfcleaning and non-clogging with size 8mm mouth opening.

The connection to the nozzle tree is effected by means of mounting clamps and screws. No tools are required for maintenance of the nozzles. If desired, nozzles of other marks can be used.

The nozzle tree consists of the header pipe and the vertical nozzle pipes. All connections made with easy removable screws.

Material is selected in dependance of the prevailing maximum temperature, either in PVC (up to 70o C.) or of PP (up to 90o C.).

The supporting brackets for nozzle pipes and header pipes are made of fibreglass Inspection access door with large area non-breakable safety screen and sturdy frame of aluminium, brass or stainless steel as required.

Lighting is constructed of light-resistant synthetic material.

All electric parts are all on the outside and have no connection to the washer inside. The lamps inside are semispherical in order to give even illumination of the interior.

Water level controls in the washer by mechanical ball valve. The float is made of plastic or high grade steel, the valve body is made of brass, high grade steel or synthetic, as required by the water quality, suitable for mains water pressure up to 6 bar.

The **water circulation pump** is either:

standing free, outside the airwasher and connected with the socket by means of short pipe lines to the suction and pressure connections of the washer sump,

or

a **fully fitted flange pump** in the side panel of the washer sump. In this case the nozzle tree and distributor are inside connected with the pump.

In both cases the pump is protected against large particles by a strainer basket made of NPE/PVC or optional by a strainer box with exchangeable filters.

If required, the following **special equipment** and accessories can be fitted

- Manometer to control pump pressure
- Thermometer to control water temperature
- Internal siphon at overflow connection piece
- Automatic motorized drain valve
- Quick fill
- Hose connector inside or outside for washer cleaning
- others