



## ORGAN HUMIDIFIER Type D16b

**W**atkins and Watson Ltd's organ humidifiers are designed to meet the needs of today's Organ Builders.

The type D16b is the larger sibling of the very popular type D12a machine, and is the latest development of a principal which has been increasing in popularity for more than three decades. There are currently more than 2000 "D" type humidifiers in daily operation in a wide variety of locations, both within the UK and overseas.

### PURPOSE.

To offset the abnormal drying out of an organ due to heating of the building.

It is not always realised that the outside air on a cold and rainy day will have a relative humidity of perhaps 90% RH. However, on the same day, the air in a Church heated to 15°C may only have a relative humidity of 35% RH.

Experience has shown that organs begin to suffer from shrinkage, and problems can occur with the action, timber and leather parts, when the RH falls below 50%.

### PRINCIPALS OF OPERATION.

Our organ humidifiers are designed to operate without heat or atomisation. Air is passed through a labyrinth of surfaces which are kept moist by their being sprinkled with large water droplets. This simple, yet effective design gives significant advantages with regard to reliability and safety, allowing the equipment to be operated for long periods with little attention.

We do however recommend that this equipment is thoroughly cleaned and serviced on a six monthly basis. Regular sterilisation against the possibility of legionella is also strongly recommended. Our Service Department would be pleased to assist you with any of your organ blower or humidifier maintenance or repair requirements.

### GENERAL SPECIFICATION.

<b>Motor power</b>	<b>180 Watts</b>
<b>Full load current</b>	<b>2.5 A</b>
<b>Voltage</b>	<b>230 Volts</b>
<b>Frequency</b>	<b>50 Hz</b>
<b>Ø</b>	<b>1</b>

<b>Maximum output - Pressure</b>	<b>in.H<sub>2</sub>O</b>
<b>Maximum output - Volume</b>	<b>cfm</b>

<b>Aprx. dimensions (mm)</b>	<b>765 x 765 x 820*</b>
<b>Aprx. net weight (ex works)</b>	<b>75 Kgs</b>

\* Tank dims only. Actual dims vary with outlet no and position.e.g 6 outlet model 1065 x 865 x 820mm

<b>Maximum no. of outlets</b>	<b>6</b>
<b>Outlet spigot diameter (nominal)</b>	<b>100mm</b>
<b>Float valve termination</b>	<b>½ in BSP</b>
<b>Overflow tray drain point fitting</b>	<b>¾ in BSP</b>

\* Fitting not supplied. Tray, if supplied, has pre-cut hole only.

<b>Approximate water usage (Max.)</b>	<b>40 Litres/Day</b>
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### EFFECTIVENESS. (For guidance purposes only)

<b>Maximum reduction from ambient in "wet bulb" depression. (At humidifier's discharge)</b>	<b>66%</b>
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A variety of standard accessories are available for use with this equipment, including:-

- Humidistats
- Stands
- Flexible duct & spigots

We would be happy to discuss your specific requirements.