TECHNICAL SPECIFICATION

MOULD TEMPERATURE CONTROLLERS
BTC (W & O) Series

- CNC manufactured with powder coated finish
- Advanced Microprocessor Based Controller display of status of operation and faults
- Highly accurate digital readout of process against set point PID temperature control (+ or -1°C)
- Easy openable side panels for service
- Over heat protection
- Highest temperature protection
- Automatic water fill & water shortage alarm
- Cylindrical heating cylinder with direct mixing of cooling circuit in water unit
- Temperature lock setting to avoid unauthorized handling
- Main control panel switch with door lock safety
- Tubular type stainless steel heaters
- Castor wheel mounted cabinet for easy movement
- Noise level lower than 70db(A)
- Pump overload & reverse protection
- Tube in & tube out system for heating & cooling in oil unit
- Set in °C/°F mode
- Stainless steel tubular tank
- Low oil level alarm in oil unit
- Set cool down mode
- Start/Off timer
- Water drainage function

Specification sheet for BTC (W & O) Mould Temperature Controller

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLUID</th>
<th>TEMP. °C</th>
<th>HEATING POWER KW</th>
<th>PUMP</th>
<th>TANK CAPACITY (LTR)</th>
<th>COOLING TYPE</th>
<th>MAIN CONNECTION IN” (NPT)</th>
<th>COOLING CONNECTION IN” (NPT)</th>
<th>APPROX. SHIPPING WEIGHT IN KG</th>
<th>DIMENSION IN MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTC (W) 6</td>
<td>WATER</td>
<td>50-100</td>
<td>6</td>
<td>0.75/1</td>
<td>56</td>
<td>5.2</td>
<td>W/O</td>
<td>DIRECT</td>
<td>3/8</td>
<td>1/2</td>
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<tr>
<td>BTC (W) 6</td>
<td>WATER</td>
<td>50-120</td>
<td>6</td>
<td>0.75/1</td>
<td>135</td>
<td>3</td>
<td>W/O</td>
<td>DIRECT</td>
<td>3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>BTC (W) 9</td>
<td>WATER</td>
<td>50-140</td>
<td>9</td>
<td>0.75/1</td>
<td>60</td>
<td>5.2</td>
<td>W/O</td>
<td>DIRECT</td>
<td>3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>BTC (O) 6</td>
<td>OIL</td>
<td>50-150</td>
<td>6</td>
<td>0.75/1</td>
<td>56</td>
<td>5.2</td>
<td>8</td>
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<td>8</td>
<td>INDIRECT</td>
<td>3/8</td>
<td>1/2</td>
</tr>
</tbody>
</table>

POWER SUPPLY : 415/3/50Hz

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE
**Overall Dimension & Connections**

Bry-Air temperature controller Model BTC-W-6 has a high pressure and high flow pump which pumps the water to the mould from the tank. The tank is tubular. The heater in the tank heats the water when required and cooled by directly adding the cooling tower water in the main circuit. Whenever the level of the water in the tank goes down, it is automatically filled. The system is equipped with by pass system which takes off the excess water from the inlet to outlet.

**Working Principle of BTC (W)**

**System Flow Diagram**

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**Working Principle of BTC (O)**

Bry-Air temperature controller Model BTC-O-9 has a high pressure and high flow pump which pumps the oil to the mould from the tank. The tank is tubular. In the central tube, the oil is stored and it is heated by heater when required and cooled through external tube by circulating the cooling tower water when required. The oil level in the circuit is maintained from the oil tank. Whenever the level in the oil tank goes down, the unit gets tripped and low oil level alarm appears. The system is equipped with by pass system which takes off the excess oil in the circuit to the oil tank.

**System Flow Diagram**

[Diagram showing the flow of oil through the system, including components such as Oil Tank, Pump, Manual Valve, Drain, Filter, Cooling Valve, and Mold.]

**BTC(O)-6KW**

[Diagram showing the flow of oil through the system, including components such as Oil Tank, Pump, Manual Valve, Drain, Filter, Cooling Valve, and Mold.]

**BTC(O)-9KW**

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World Class Plastic Auxiliary Equipment Under One Roof

**Drying**
- **BWD series**: Honeycomb Resin Dryer 30 CMH to 3500 CMH, Engineered Above 3500 CMH
- **BHD series**: Honeycomb Resin Dryer 30 CMH to 3500 CMH, Engineered Above 3500 CMH
- **BWD/BHD Combo series**: Honeycomb Resin Dryer 30 CMH to 3500 CMH, Engineered Above 3500 CMH
- **HP series**: Drying Hopper 13 kg to 400 kg, Engineered Above 3600 kg
- **HAD series**: Hot Air Dryer 13 kg to 400 kg, Engineered Above 3600 kg
- **HAD HP series**: Hot Air Dryer 13 kg to 400 kg, Engineered Above 3600 kg
- **Combo Dryer**: 30 CMH to 60 CMH

**Conveying**
- **BVL (T) series**: Auto Loader Twin 100 kg/hr to 1500 kg/hr, Engineered Above 1500 kg/hr
- **BVL (T) series**: Auto Loader Twin 100 kg/hr to 1500 kg/hr, Engineered Above 1500 kg/hr
- **BVL Tetra series**: Auto Loader Tetra up to 2000 kg/hr
- **BCE series**: (Bry-Air Conveying System) 2.2 kw, 4 kw, 7.5 kw with "n" number of station

**Blending**
- **BGD series**: Gravimetric Blending 160 kg/hr to 500 kg/hr, Engineered Above 500 kg/hr
- **BVD series**: Volumetric Doser Dosing Screw Throughput 0.2 kg/hr to 26 kg/hr
- **BTC series**: Mold Temperature Controller 500C - 1400C with Water & 1000C - 2000C with Oil
- **CHA series**: Chiller 3.5 TR, 7.5 TR & 10.5 TR

**Heating & Cooling**
- **MDS series**: Mould Dehumidification System 500 CMH to 2500 CMH

**Mould Dehumidification**
- **BVL (F) series**: Auto Loader 150 kg/hr to 1000 kg/hr, Engineered Above 1000 kg/hr
- **BGD series**: Gravimetric Blending 200 kg/hr to 2150 kg/hr, Engineered Above 2150 kg/hr
- **BHD series**: Honeycomb Resin Dryer 30 CMH to 3500 CMH
- **HAD series**: Hot Air Dryer 13 kg to 400 kg, Engineered Above 3600 kg
- **HAD series**: Hot Air Dryer 13 kg to 400 kg, Engineered Above 3600 kg
- **BWD/BHD Combo series**: Honeycomb Resin Dryer 30 CMH to 3500 CMH, Engineered Above 3500 CMH
- **HP series**: Drying Hopper 13 kg to 400 kg, Engineered Above 3600 kg

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