

# Technical Information

## Performance Specifications

|                              |                                  |                    |
|------------------------------|----------------------------------|--------------------|
| Operating Temperature Range: | Model dependent; see table below |                    |
| Temperature Stability:       | ±0.01C (±0.02°F)                 |                    |
| Pump Type:                   | Variable speed pressure/suction  |                    |
|                              | <u>60Hz models</u>               | <u>50Hz models</u> |
| Maximum Pressure:            | 4.3 psi (0.30 bar)               | 3.6 psi (0.25 bar) |
| Maximum Pressure Flow Rate:  | 5.3 gpm (20.1 lpm)               | 4.4 gpm (16.7 lpm) |
| Maximum Suction Flow Rate:   | 3.9 gpm (14.7 lpm)               | 3.2 gpm (12.2 lpm) |
| Heater Wattage:              | 1100 watts                       | 2200 watts         |

| Model Type                            | Reservoir Capacity | Temperature Range   | Electrical Requirements   |                           |
|---------------------------------------|--------------------|---|---------------------------|---------------------------|
|                                       |                    |   | 60Hz Units                | 50Hz Units                |
| AD7LR-20 Refrigerating / Heating Bath | 7 liters           | -20° to 200°C<br>-4° to 392°F                                 | 120V, 60Hz,<br>12A        | 240V, 50Hz,<br>12A        |
| AD07R-20 Refrigerating / Heating Bath | 7 liters           | -20° to 200°C<br>-4° to 392°F                                 | 120V, 60Hz,<br>12A        | 240V, 50Hz,<br>12A        |
| AD07R-40 Refrigerating / Heating Bath | 7 liters           | -40° to 200°C<br>-40° to 392°F                                | 120V, 60Hz,<br>12A        | 240V, 50Hz,<br>12A        |
| AD15R-30 Refrigerating / Heating Bath | 15 liters          | -30° to 200°C<br>-22° to 392°F                                | 120V, 60Hz,<br>13A        | 240V, 50Hz,<br>13A        |
| AD15R-40 Refrigerating / Heating Bath | 15 liters          | -40° to 200°C<br>-40° to 392°F                                | 120V, 60Hz,<br>13A        | 240V, 50Hz,<br>13A        |
| AD20R-30 Refrigerating / Heating Bath | 20 liters          | -30° to 200°C<br>-22° to 392°F                                | 120V, 60Hz,<br>13A        | 240V, 50Hz,<br>13A        |
| AD28R-30 Refrigerating / Heating Bath | 28 liters          | -30° to 200°C<br>-22° to 392°F                                | 120V, 60Hz,<br>13A        | 240V, 50Hz,<br>13A        |
| AD45R-20 Refrigerating / Heating Bath | 45 liters          | -25° to 135°C<br>-13° to 275°F                                | 208-240V,<br>50/60Hz, 12A | 208-240V,<br>50/60Hz, 12A |
| AD07H200 Heating Only Bath            | 7 liters           | Ambient +10° to 200°C<br>Ambient +20° to 392°F                | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD15H200 Heating Only Bath            | 15 liters          | Ambient +10° to 200°C<br>Ambient +20° to 392°F                | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD20H200 Heating Only Bath            | 20 liters          | Ambient +10° to 200°C<br>Ambient +20° to 392°F                | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD28H200 Heating Only Bath            | 28 liters          | Ambient +10° to 200°C<br>Ambient +20° to 392°F                | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD06S150 Open Bath System             | 6 liters           | Ambient +10° to 150°C<br>Ambient +20° to 302°F <sup>(1)</sup> | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD10S150 Open Bath System             | 10 liters          | Ambient +10° to 150°C<br>Ambient +20° to 302°F <sup>(1)</sup> | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD20S150 Open Bath System             | 20 liters          | Ambient +10° to 150°C<br>Ambient +20° to 302°F <sup>(1)</sup> | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD28S150 Open Bath System             | 28 liters          | Ambient +10° to 150°C<br>Ambient +20° to 302°F <sup>(1)</sup> | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD29VB5R Viscosity Bath               | 29 liters          | Ambient +10° to 85°C<br>Ambient +20° to 185°F <sup>(2)</sup>  | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |
| AD29VB3S Viscosity Bath               | 29 liters          | Ambient +10° to 85°C<br>Ambient +20° to 185°F <sup>(2)</sup>  | 120V, 60Hz,<br>10A        | 240V, 50Hz,<br>10A        |

1. Maximum operating temperature at which ±0.01°C temperature stability can be maintained; Advanced Digital Controller is capable of higher temperatures.