The InRow Chilled Water product design closely couples the cooling with the IT heat load. This design prevents hot air recirculation, while improving cooling predictability and allowing for a pay as you grow environment. IT operators looking to improve efficiency or deploy higher density equipment will benefit from the modular design of the InRow Chilled Water products. The intelligent controls of the InRow Chilled Water products actively adjust fan speed and water flow to match the IT heat load to maximize efficiency and address the dynamic demands of today’s IT environments.

To meet the diverse requirements of IT environments, the InRow Chilled water products are available in two sizes. The InRow RC is available in 300 and 600 mm wide cabinets. Optional humidification and reheat is available in select units.
Features/Benefits

**Availability**
- Active Response Controls monitor and actively adjust cooling capacity to ensure proper server inlet temperatures.
- Placing the unit in the row of racks moves the source of cooling closer to the heat load. This eliminates air mixing and provides a predictable cooling architecture.

**Total Cost of Ownership**
- Close Coupled Cooling improves operational efficiency 30%-50% over traditional data center cooling approaches.
- Variable speed fans reduce energy consumption during off-peak cooling periods and adapt to unpredictable power densities.

**Flexibility**
- Adapts to work in both new and existing data center environments.

**Serviceability**
- Modular Components simplify replacement and reduce mean time to repair.
- Allows system to remain operational if a fan replacement is required (300mm only).
- Row based equipment allows for all serviceable components to be replaced/maintained in the hot or cold aisles.
- Easy to maintain, cleanable, deep loading mesh filter removes particles from the return air stream.

**Manageability**
- Real time display of current and available cooling.
- InfrastruXure Central compatible.
- User-friendly touch screen display.
- Building management system integration.
InRow Chilled Water 300mm
ACRC301S (Standard Temp)

Up to 40kW

- Variable speed, hot-swappable fans reduce energy consumption during off-peak hours and allow system to remain operational if a replacement is required

- 4.3” Touch screen display for easy navigation and configuration

- New door design allows more airflow with supplemental side-air distribution

- Slide out electrical box for easy access

- Intelligent controls offer network manageability, real time capacity monitoring, predictive failure notification, and rack inlet temperature control

- Top or bottom piping / power connections

- Dual A-B power inputs offers redundancy and protection

- Remote probe ensures proper inlet temperature to IT equipment

- Condensate management – factory installed pump removes water from the unit, ensuring continuous operation
Performance Specifications

- **Increased Cooling Capacity**
  - Up to 40 kW
  - 3200 CFM max airflow
  Conditions @ 45°F EWT, 120°F RAT, 12°F dT

- **Improved Energy Efficiency**
  - 1.0 kW @ maximum operating condition

- **4.3” User Friendly Touch Screen**

- **100-240V, 1-ph, 50/60Hz Integrated Compatibility**
  - 100-120V: NEMA L5-20P to C19
  - 200-240V: IEC 309-16A to C19

- **Compatible with Cooling Distribution Unit (CDU)**

- **EcoAisle & Active Flow Control Compatible**

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<table>
<thead>
<tr>
<th>Return Air Temperature</th>
<th>SKU</th>
<th>Total Capacity kW</th>
<th>Sensible Capacity kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB)</td>
<td>ACRC301S</td>
<td>18.4</td>
<td>18.2</td>
</tr>
<tr>
<td>85°F DB, 64.5°F WB (29.4°C DB, 18.1°C WB)</td>
<td>ACRC301S</td>
<td>21.8</td>
<td>21.6</td>
</tr>
<tr>
<td>90°F DB, 66.1°F WB (32.2°C DB, 18.9°C WB)</td>
<td>ACRC301S</td>
<td>25.2</td>
<td>25.0</td>
</tr>
<tr>
<td>95°F DB, 67.7°F WB (35.0°C DB, 19.8°C WB)</td>
<td>ACRC301S</td>
<td>28.7</td>
<td>28.4</td>
</tr>
<tr>
<td>100°F DB, 69.2°F WB (37.8°C DB, 20.7°C WB)</td>
<td>ACRC301S</td>
<td>30.4</td>
<td>30.1</td>
</tr>
<tr>
<td>105°F DB, 70.8°F WB (40.6°C DB, 21.6°C WB)</td>
<td>ACRC301S</td>
<td>33.6</td>
<td>33.3</td>
</tr>
<tr>
<td>110°F DB, 72.0°F WB (43.3°C DB, 22.4°C WB)</td>
<td>ACRC301S</td>
<td>35.8</td>
<td>35.4</td>
</tr>
</tbody>
</table>

Note: All values are accurate to +/- 1 kW and based on full speed with standard filters
Note: All values in table are based on 45°F (7°C) entering water temperature with a 10°F (5.5°C) chilled water delta temperature
1 - Chilled water delta temperature is 12°F (6.6°C)
2 - Chilled water delta temperature is 14°F (7.7°C)
InRow Chilled Water 300mm
ACRC301H (High Temp)

Up to 60kW

- Economization and free cooling
- Variable speed, hot-swappable fans reduce energy consumption during off-peak hours and allow system to remain operational if a replacement is required
- Passive noise control foam fan bezels
- 4.3” Touch screen display for easy navigation and configuration
- New door design allows more airflow with supplemental side-air distribution
- Slide out electrical box for easy access
- Intelligent controls offer network manageability, real time capacity monitoring, predictive failure notification, and rack inlet temperature control
- Top or bottom piping / power connections
- Dual A-B power inputs offers redundancy and protection
- Remote probe ensures proper inlet temperature to IT equipment
- Dew Point Control Pump – internal pump recirculates return water to keep coil temperature above dew point and prevent condensation

Schneider Electric
Performance Specifications

- **Increased Cooling Capacity**
  - Up to 60 kW
  - 4200 CFM max airflow
    
    Conditions @ 55°F EWT, 120°F RAT, 12°F dT

- **Economization**
  - Higher entering water temperatures

- **Dewpoint Control**
  - Ensure coil temperature is always above dew point
  - Results in no condensate

- **Energy Efficient**
  - 1.9 kW @ maximum operating condition

- **4.3” User Friendly Touch Screen**

- **208-230V, 1-ph, 50/60Hz**
  - Hardwired

- **EcoAisle & Active Flow Control Compatible**

### Net Cooling Capacity

<table>
<thead>
<tr>
<th>Return Air Temperature</th>
<th>SKU</th>
<th>Total Capacity kW</th>
<th>Sensible Capacity kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB)</td>
<td>ACRC301H</td>
<td>13.4</td>
<td>13.4</td>
</tr>
<tr>
<td>85°F DB, 64.5°F WB (29.4°C DB, 18.1°C WB)</td>
<td>ACRC301H</td>
<td>18.0</td>
<td>18.0</td>
</tr>
<tr>
<td>90°F DB, 66.1°F WB (32.2°C DB, 18.9°C WB)</td>
<td>ACRC301H</td>
<td>24.0</td>
<td>24.0</td>
</tr>
<tr>
<td>95°F DB, 67.7°F WB (35.0°C DB, 19.8°C WB)</td>
<td>ACRC301H</td>
<td>29.9</td>
<td>29.9</td>
</tr>
<tr>
<td>100°F DB, 69.2°F WB (37.8°C DB, 20.7°C WB)</td>
<td>ACRC301H</td>
<td>34.9</td>
<td>34.9</td>
</tr>
<tr>
<td>105°F DB, 70.8°F WB (40.6°C DB, 21.6°C WB)</td>
<td>ACRC301H</td>
<td>40.3</td>
<td>40.3</td>
</tr>
<tr>
<td>110°F DB, 72.0°F WB (43.3°C DB, 22.4°C WB)</td>
<td>ACRC301H</td>
<td>44.6</td>
<td>44.6</td>
</tr>
</tbody>
</table>

Note: All values are accurate to +/- 1 kW and based on full speed with standard filters.

Note: All values in table are based on 60°F (15°C) entering water temperature with a 10°F (5.5°C) chilled water delta temperature.
InRow Chilled Water 600mm
ACRC600 series

Up to 70kW

- Variable speed fans reduce energy consumption during off-peak hours
- Intelligent controls offer network manageability, real time capacity monitoring, predictive failure notification, and rack inlet temperature control
- Top or bottom piping / Power connections
- Dual A-B power inputs offers redundancy and protection (Cooling only units)
- Remote probe ensures proper inlet temperature to IT equipment
- Electric reheat controls temperature during dehumidification (Optional)
- Humidifier maintains moisture level (Optional)
- Condensate management – factory installed pump removes water from the unit, ensuring continuous operation
- Casters allow for easy movement

Schneider Electric
Performance Specifications

• High Cooling Capacity
  – Up to 70 kW
  – 6000 CFM maximum airflow

• Optional Humidification & Reheat
  – Integrated and automatically controlled

• Voltage Options
  – 200-240V, 460-480V, & 380-415V
  – 3 phase 50/60 Hz

• Energy Efficient
  – 3.3 kW maximum (cooling only units)
  – 15 kW maximum (with reheat and humidification)

• EcoAisle & Active Flow Control Compatible

### Net Cooling Capacity

<table>
<thead>
<tr>
<th>Return Air Temperature</th>
<th>SKU</th>
<th>Total Capacity kW (BTU/hr)</th>
<th>Sensible Capacity kW (BTU/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB)¹</td>
<td>ACRC60x / ACRC60xP</td>
<td>37.9 (130,000)</td>
<td>36.8 (126,000)</td>
</tr>
<tr>
<td>85°F DB, 64.5°F WB (29.4°C DB, 18.1°C WB)¹</td>
<td>ACRC60x / ACRC60xP</td>
<td>45.0 (154,000)</td>
<td>43.7 (149,000)</td>
</tr>
<tr>
<td>90°F DB, 66.1°F WB (32.2°C DB, 18.9°C WB)¹</td>
<td>ACRC60x / ACRC60xP</td>
<td>52.3 (179,000)</td>
<td>51.2 (175,000)</td>
</tr>
<tr>
<td>95°F DB, 67.7°F WB (35.0°C DB, 19.8°C WB)²</td>
<td>ACRC60x / ACRC60xP</td>
<td>57.2 (195,000)</td>
<td>56.0 (191,000)</td>
</tr>
<tr>
<td>100°F DB, 69.2°F WB (37.8°C DB, 20.7°C WB)³</td>
<td>ACRC60x / ACRC60xP</td>
<td>61.6 (210,000)</td>
<td>61.0 (208,000)</td>
</tr>
<tr>
<td>105°F DB, 70.8°F WB (40.6°C DB, 21.6°C WB)³</td>
<td>ACRC60x / ACRC60xP</td>
<td>69.6 (238,000)</td>
<td>69.6 (238,000)</td>
</tr>
</tbody>
</table>

Note: All values are accurate to +/- 0.73 kW (2500 BTU/hr) and based on full speed with standard filters

1 - Values are based on 45°F (7°C) entering water temperature with a 12°F (6.6°C) chilled water delta temperature

2 - Values are based on 45°F (7°C) entering water temperature with a 14°F (7.7°C) chilled water delta temperature

3 - Values are based on 45°F (7°C) entering water temperature with a 16°F (8.8°C) chilled water delta temperature