

# Row Mounted Cooling<sub>(cw)</sub>

Rack-based Chilled Water cooling for optimum operating conditions



## Coolside close coupled In-Row cooling solutions

The In-Row Chilled Water family closely couples the cooling with the heat source, improving predictability and efficiency. Intelligent controls actively adjust to match the load, addressing the dynamic demands of today's IT environments.

Available in various configurations, these units meet the diverse requirements for data center cooling. IT operators looking to improve efficiency or deploy higher density equipment will benefit from the modular design of the In-Row Chilled Water products.



## Features

- Highest cooling capacities in the industry
- 12" and 24" cabinet widths
- EC fans: Independently and infinitely adjustable  
EC fans ensure maximum efficiency
- Used in containment, open architecture, and hot spot reduction applications
- Adapts to both high and low density IT environments
- Wide range of cooling capacities available
- 100% front and rear service access
- Adapts to all major manufacturers racks and rack containment systems
- Seamless integration with most BMS plat forms
- High air flow with less noise
- Built in redundancy and capacity assist functions
- 2-Way or 3-Way control valves
- Top and bottom piping options
- Casters and Leveling Feet included
- Indoor use only
- Installation on raised and non-raised floors



### ■ Cold Aisle

Cold aisle containment captures cooled air from the WR In-Row and prevents it from mixing with hot air. The front of IT equipment is accessed in the contained cold aisle. The Galx°C In-Row draws hot air from the external enviroment, removes the heat and supplies cooled air back into the contained cold aisle.

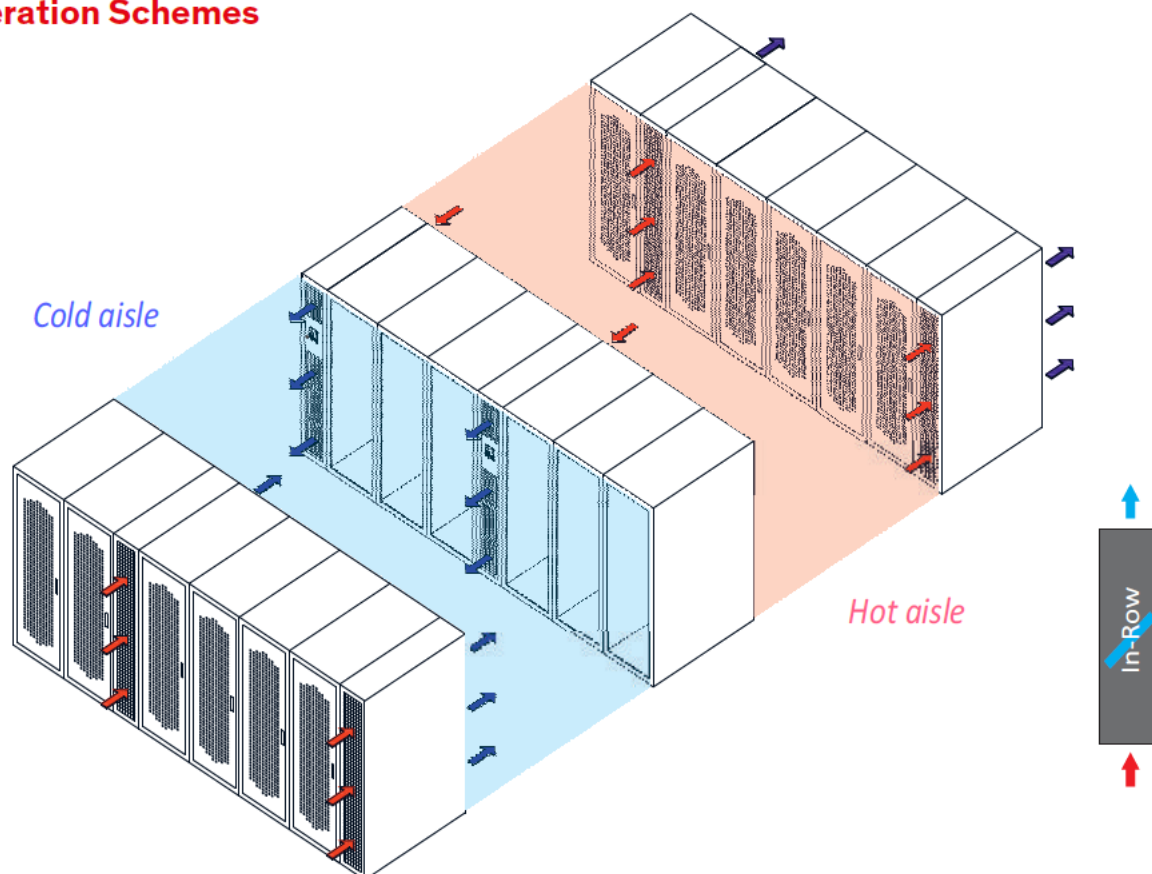
### ■ Hot Aisle

Hot aisle containment the hot exhaust air from IT equipment and prevent from mixing with cool air. The front of IT equipment is accessed in the external cold aisle. The Galx°C In-Row draws the contained hot air from the hot aisle, removes the heat and supplies cooled air into the external cold aisle.

### ■ Open Aisle

Open aisle configuration racks in a single row or in hot and cold aisle rows, but without containment. The Galx°C In-Row draws hot air from the external environment or hot aisle, removes the heat and supplies cooled air to the front of IT equipment in the cold aisle.

## Operation Schemes



## Advantages

- Scalability
- Energy efficiency
- Humidification
- Flexibility
- Free Cooling

## Technical Data

IN-ROW Chilled Water (CW)					
MODEL		WR20E	WR26E	WR35E	WR60E
NET C.W. COOLING CAPACITY - MBH (Includes Motor Heat @ Rated CFM & ESP)					
Total <sup>1</sup>	MBH (kW)	88.0 (25.8)	113.9 (33.4)	142.6 (41.8)	243.9 (71.5)
Sensible <sup>1</sup>	MBH (kW)	88.0 (25.8)	113.9 (33.4)	142.6 (41.8)	243.9 (70.5)
Flow Rate <sup>1</sup>	GPM (M <sup>3</sup> /hr)	18.6 (4.2)	23.1 (5.2)	28.0 (6.3)	49.8 (11.3)
Total <sup>2</sup>	MBH (kW)	79.8 (23.4)	103.3 (30.3)	128.9 (37.8)	211.9 (62.1)
Sensible <sup>2</sup>	MBH (kW)	79.8 (23.4)	103.3 (30.3)	128.9 (37.8)	211.9 (62.1)
Flow Rate <sup>2</sup>	GPM (M <sup>3</sup> /hr)	16.8 (3.8)	20.9 (4.7)	25.4 (5.7)	43.6 (9.9)
Blower/Motor - Backward Inclined, Plenum Style Fan, with an EC Motor					
Air Flow(CFM) <sup>3</sup>		2,000	2,600	3,200	5,200
Qt(Pcs)		3	4	5	4
Physical Data					
Approx. Weight (lbs)		380	400	420	550
Dimensions (H"xW"xD")		78.4 × 11.8 × 43.1(47.2)			78.4 × 23.6 × 43.1(47.2)
1) Air inlet temperature: 37.7 °CDB, 20.6 °CWB		1) CH.W.S/R: 4.5/10 °C		3) External static fan pressure: 30 Pa	
2) Air inlet temperature: 37.7 °CDB, 20.6 °CWB		2) CH.W.S/R: 7/12 °C		3) External static fan pressure: 30 Pa	

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