

# Precision Temperature & Humidity Control



## CRAC Single Circuit Perimeter Mounted Cooling

The climate inside your buildings is critical to your mission. Trane taps the hidden potential of buildings to become more sustainable, reliable, cost efficient and future proof. We're transforming data centers around the world with unmatched expertise and innovative digital solutions.

Trane Direct Expansion (DX) Systems are a compact solution for efficient cooling in small spaces. They can be easily tucked into a corner, between cabinetry, or side-by-side. Units are especially adaptable to raised floors and are available in up-flow and down-flow air pattern configurations.

- State-of-the-art Microprocessor Controller with a range of Building Management Systems interface options
- Optimized air distribution for raised floor configurations
- 100% front service access
- Up-flow and down-flow air patterns
- Adjustable air volume
- Power correction included
- EC Fan
  - Fan speed is continuously adjustable via a signal from the system controller without the use of VFD's
  - Direct drive - no belt abrasion/dust, maintenance free operation
  - Less vibration / quieter operation



### Technical Data

CRAC Single Circuit		
COS		
Capacity	kW	7 - 35
	MBH	24 - 120
	Tons	2 - 10
Air Flow	CFM	1,000 - 4,800

## Technical Data

Air Cooled					
Model: TR-COS-	024-AR-EC	042-AR-EC	060-AR-EC	096-AR-EC	120-AR-EC
NET DX COOLING CAPACITY - KW (MBH)					
72°FDB/60°FWB, 50% RH					
Total kW (MBH)	6.8 (23.5)	13.3 (45.3)	16.4 (55.9)	Consult Factory	32.6 (111.4)
Sensible kW (MBH)	5.7 (19.6)	11.6 (39.6)	14.7 (50.1)	Consult Factory	26.9 (92.0)
80°FDB/62.9°FWB, 38% RH					
Total kW (MBH)	7.4 (25.4)	14.3 (48.8)	17.7 (60.6)	Consult Factory	35.1 (119.9)
Sensible kW (MBH)	7.2 (24.6)	14.3 (48.8)	17.7 (60.6)	Consult Factory	33.8 (115.5)
Evaporator Blower / Motor - Backward Curved, Direct-Drive, EC Plug Fan					
Horsepower (Hp)	3.6	3.6	3.6	Consult Factory	4.1
CFM @ ext. st. press.	1,000 @ 0.5	2,000 @ 0.5	2,700 @ 0.5	Consult Factory	4,800 @ 0.5
Evaporator Coil - Aluminum Fin, Copper Tube					
Rows/Face Area (ft <sup>2</sup> )	3/ 5.5	4/ 5.5	4/ 5.5	Consult Factory	4/ 9.75
Face Velocity, fpm	182	364	491	Consult Factory	492
Glycol Cooled					
Model: TR-COS-	024-G-EC	042-G-EC	060-G-EC	096-G-EC	120-G-EC
NET DX COOLING CAPACITY - BTU/H, (includes standard DX evaporator motor heat @ std CFM & e.s.p. ratings)					
72°FDB/60.0°FWB, 50% RH					
Total kW (MBH)	6.7 (22.9)	12.9 (43.9)	15.9 (54.2)	26.1 (89.1)	31.8 (108.8)
Sensible kW (MBH)	5.7 (19.3)	11.3 (38.7)	14.5 (49.4)	23.9 (81.6)	26.6 (90.9)
80°FDB/62.9°FWB, 38% RH					
Total kW (MBH)	7.1 (24.3)	13.8 (47.3)	17.3 (59.1)	28.6 (97.5)	34.2 (116.9)
Sensible kW (MBH)	7.1 (24.3)	13.8 (47.3)	17.3 (59.1)	28.6 (97.5)	33.5 (114.3)
Evaporator Blower / Motor - Backward Curved, Direct-Drive, EC Plug Fan					
Horsepower (Hp)	3.6	3.6	3.6	4.1	4.1
CFM @ ext. st. press.	1,000 @ 0.5"	2,000 @ 0.5"	2,700 @ 0.5"	4,400 @ 0.5"	4,800 @ 0.5"
Evaporator Coil - Aluminum Fin, Copper Tube					
Rows/Face Area (ft <sup>2</sup> )	3/ 5.5	4/ 5.5	4/ 5.5	4/ 9.75	4/ 9.75
Face Velocity, fpm	182	364	491	451	492
Water Cooled					
Model: TR-COS-	024-W-EC	042-W-EC	060-W-EC	096-W-EC	120-W-EC
NET DX COOLING CAPACITY - BTU/H, (includes standard DX evaporator motor heat @ std CFM & e.s.p. ratings)					
72°FDB/60.0°FWB, 50% RH					
Total kW (MBH)	7.7 (26.4)	Consult Factory	18.1 (61.8)	29.9 (102.0)	36.5 (124.8)
Sensible kW (MBH)	6.1 (20.8)	Consult Factory	15.4 (52.5)	25.5 (87.0)	28.7 (97.9)
80°FDB/62.9°FWB, 38% RH					
Total kW (MBH)	8.2 (28.1)	Consult Factory	19.6 (66.9)	32.1 (109.7)	39.2 (133.8)
Sensible kW (MBH)	7.5 (25.7)	Consult Factory	19.3 (65.9)	31.8 (108.7)	35.5 (121.2)
Evaporator Blower / Motor - Backward Curved, Direct-Drive, EC Plug Fan					
Horsepower (Hp)	3.6	Consult Factory	3.6	4.1	4.1
CFM @ ext. st. press.	1,000 @ 0.5"	Consult Factory	2,700 @ 0.5"	4,400 @ 0.5"	4,800 @ 0.5"
Evaporator Coil - Aluminum Fin, Copper Tube					
Rows/Face Area (ft <sup>2</sup> )	3/ 5.5	Consult Factory	4/ 5.5	4/ 9.75	4/ 9.75
Face Velocity, fpm	182	Consult Factory	491	451	492
Unit Dimensions (Includes access panels, w/o Plenum Box Option)					
Model: COS Air/Glycol/Water	024	042	060	096	120
H" x W" x D"	76.0 x 30.6 x 30.6	76.0 x 30.6 x 30.6	76.0 x 30.6 x 30.6	76.0 x 47.6 x 33.6	76.0 x 47.6 x 33.6

Visit [trane.com/precisioncooling](https://trane.com/precisioncooling) or [trane.com/datacenters](https://trane.com/datacenters) to learn more.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](https://trane.com) or [tranetechnologies.com](https://tranetechnologies.com).

All trademarks referenced in this document are the trademarks of their respective owners.

© 2020 Trane. All Rights Reserved.

AH-SLB022-EN  
04/24/2020