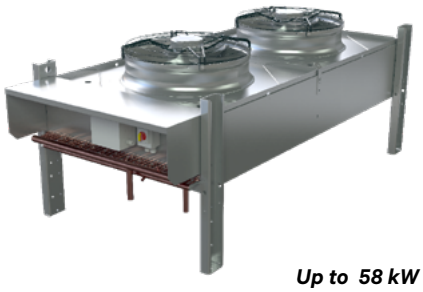
Vertiv™ CoolPhase Condenser

Outdoor Heat Rejection, OAC017-095 - OAV125-315, R513A

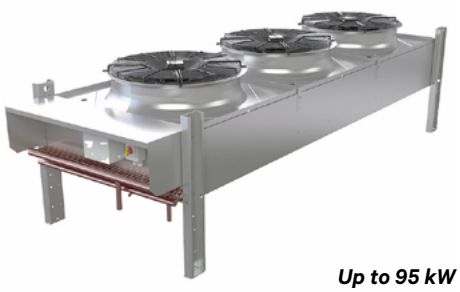
Vertiv™ Coolphase Condenser delivers high performance, energy efficiency, and long-term reliability. Two families of Vertiv CoolPhase Condensers are compatible with the Vertiv™ CoolPhase Perimeter, PAM models range, offering enhanced flexibility and integration:

- OAC017-095 - single-circuit outdoor air-cooled condenser for R513A (A1, GWP=633), fin&tube plane coil and high-efficiency EC axial fans.
- OAV125-315 - dual-circuit, compact, V-shaped outdoor air-cooled condenser for R513A (A1, GWP=633), fin&tube or microchannel coil and high-efficiency EC axial fans with optional free cooling Econophase.

Up to 33 kW
1 fan



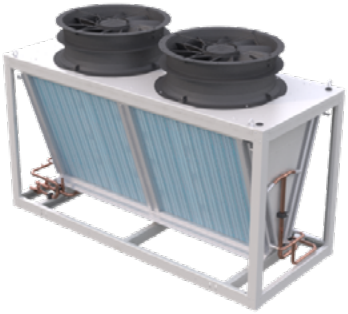
Up to 58 kW
2 fans



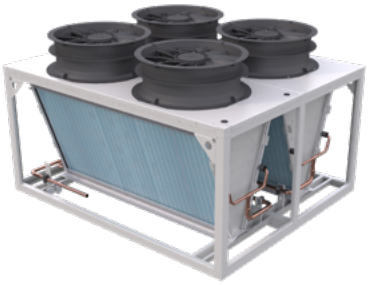
Up to 95 kW
2 fans

Lower refrigerant charge

Microchannel technology significantly reduces refrigerant charge compared to traditional Fin & Tube coils, lowering both environmental impact and operating costs.



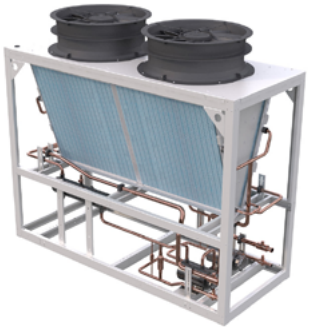
80-160 kW,
Air cooled version
2 fans



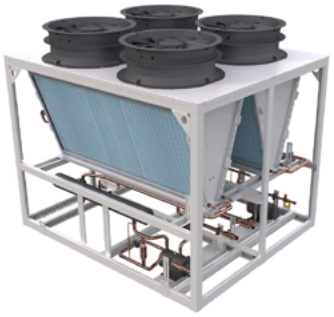
160-300 kW,
Air cooled version
4 fans

Reduced footprint

Vertiv CoolPhase Condensers, OAV range is specifically designed to minimize outdoor footprint in dual circuit systems, making 1:1 configuration possible. In EconoPhase versions, the pumped refrigerant system is fully integrated into the OAV condenser without need of additional devices.



160-300 kW,
EconoPhase version with embedded PRE, 2 fans



160-300 kW,
EconoPhase version with embedded PRE, 4 fans

Vertiv™ CoolPhase Condenser at a glance

- OAC models, single circuit condensers, features Fin & Tube plane shape coils and EC fans
- OAV models are natively dual-circuit heat rejection units, available with Fin & Tube or microchannel Vshape coils, and equipped with high-performance EC fans
- OAV configurations are available in 2 versions: standard version, and the pumped refrigerant system version that enables free cooling operation through Vertiv's patented EconoPhase technology

Technical specification

	OAV MODEL	→	OAV125	OAV165	OAV255	OAV315
Max Airflow and Heat Rejection Capacity at input condition	Max Airflow	m3/h	40300	40300	81300	81300
	Total Heat Rejection Capacity	kW	173	173	347	347
Input conditions*	Power supply	V/p/Hz	400/3/50 (+N)			
	Refrigerant	Type	R513A			
	Coil design	Type	Microchannel			
	Outdoor air temperature	°C	35			
	Condensing Temp | Desuperheating | Subcooling	°C / K / K	50 / 20 / 5			
	Unit Configuration	Fans	Standard Fans			
Design features	Refrigerating circuits	n°	2	2	2	2
	EC Axial Fan - Draw through	n°	2	2	4	4
	Capacity Modulation	%	Continuous from 20 to 100%			
	Outdoor Lenght [L]	mm	2609	2609	2609	2609
	Outdoor Width [W]	mm	1080	1080	2155	2155
	Outdoor Height Standard / EconoPhase [H]	mm	1730 / 2315	1730 / 2315	1730 / 2315	1730 / 2315
	Outdoor Weight Standard / EconoPhase	kg	420 / 460	420 / 460	780 / 820	780 / 820
System configurations	Air cooled	Availability	✓	✓	✓	✓
	Air cooled with Freecooling EconoPhase		✓	✓	✓	✓

	OAV MODEL	→	OAC017	OAC033	OAC042	OAC*58	OAC*87	OAC095
Max Airflow and Heat Rejection Capacity at input condition	Max Airflow	m3/h	6330	7500	16700	16000	24000	22565
	Total Heat Rejection Capacity	kW	20	28.4	45.6	52.4	78.5	84.2
Input conditions*	Power supply	V/p/Hz	230/1/50 (+N)					
	Refrigerant	Type	R513A					
	Coil design	Type	Copper Pipe Aluminum Fin					
	Outdoor air temperature	°C	35					
	Condensing Temp | Desuperheating | Subcooling	°C / K / K	50 / 20 / 5					
	Unit Configuration	Fans	Standard Fans					
Design features	Refrigerating circuits	n°	1	1	1	1	1	1
	EC Axial Fan - Draw through	n°	1	1	2	2	3	3
	Capacity Modulation	%	Continuous from 20 to 100%					
	Outdoor Lenght [L]	mm	1054	1330	2330	2330	3330	3330
	Outdoor Width [W]	mm	950	936	936	936	936	936
	Outdoor Height Standard / EconoPhase [H]	mm	892	1113	1113	1113	1113	1113
	Outdoor Weight Standard / EconoPhase	kg	35	86	119	127	182	202
System configurations	Air cooled	Availability	✓	✓	✓	✓	✓	✓
	Air cooled with Freecooling EconoPhase		-	-	-	-	-	-

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