

Kelvion



Goedhart® air coolers







Goedhart® Cu/Al air coolers

AIR COOLERS FOR WIDE RANGE OF APPLICATIONS





AVAILABLE CU/AL MODEL RANGES

Goedhart® Type		Tube configuration	Description	Cooling system	Internally increased tube possible
VCI-p VCI-i		50x50	Single blow-through / draw-through air cooler for industrial cooling and freezing applications	DE, coolant, Pump system, CO2	Yes
VCE-p VCE-i		50x50	Single blow-through / draw-through air cooler with last generation efficient fans and optimized coil block modules	DE, coolant, Pump system, CO2	Yes
VNS		50x50	Single blow-through air cooler for the cooling of sensitive products by means of moderate air flow and relatively high humidity	DE, coolant, Pump system, CO2	No
DVS-p DVS-i		50x50	Dual discharge air cooler for working room applications	DE, coolant, Pump system, CO2	Yes
DVR-i DVR-p		50x50	Low height dual discharge air cooler with Radial fans	DE, coolant, Pump system, CO2	Yes
BC50-p BC50XF-p BC50-i BC50XF-i		50x50	Air coolers intended for freezing products. The extra forte (XF) range has reinforced fans for overcoming the air resistance in the room	DE, coolant, Pump system, CO2	Yes



GOEDHART® VNS AIR COOLERS

Potatoes, vegetables and fruits

The Goedhart® VNS range of ceiling mounted aircoolers are specially designed for use in chill rooms, working with an air temperature of $\pm 0^{\circ}\text{C}$. The aircoolers are especially suitable for vegetable and fruit storage, working with a small ΔT to prevent dehydration of the product. The height of the aircooler is low, so the maximum space in the chill room can be utilised.

Coil block

Tube distance	: 50x50 mm straight
Fin spacings	: 7 mm
Material	: 15mm o.d internally plain copper tubes : aluminium HT-fins

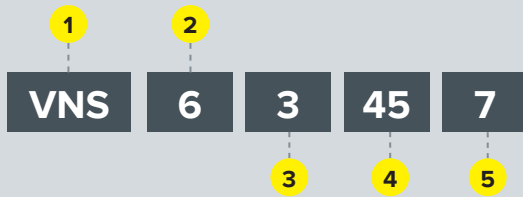
Goedhart® VNS coil blocks have copper tubes mechanically expanded into fully collared aluminium fins. A good thermal contact is achieved by expansion of the tubes into the fin collars, that are also utilised as spacers to provide a constant distance between the fins. All coolers are pressure tested to 40 bar (lower by cooling mediums) and are supplied with a light over pressure charge of dried air. Suitable for most known refrigerants and coolants, with the exception of NH_3 . For CO_2 as refrigerant we have a special LX-range available.

Casing

- Construction for ceiling mounting
- Casing material of galvanized sheet steel
- Standard white epoxy spray finishing
- Bend/header projection by end covers, easy removed for maintenance
- Standard refrigerant connections are positioned on the left hand side of the unit when looking with the direction of the airflow
- Possible defrost by hot gas spiral or electric defrost elements will be fixed to the bottom side of the coil
- Hinged drip tray prepared
- Stainless steel fasteners

Goedhart® VNS features

- Especially for agricultural applications
- Copper tubes and aluminium fins
- Consisting of 16 models
- Capacity range from 6,4 to 62,5 kW (R404A dx, SC2)
- EC fan technology possible
- Suitable for most refrigerants / coolants with exception of NH_3
- Up to 8 fans, fan diameter 350, 400, 450 and 500 mm
- Goedhart® VNS is delivered on a wooden frame for easy mounting



- 1 Range : Goedhart® VNS
- 2 Rows deep : 6
- 3 Number of fans : 1 - 8
- 4 Fan diameter : 350, 400, 450, 500 mm
- 5 Fin spacing : 7 mm

GOEDHART® VNS-FAN DATA

Fan diameter	Tension	Δ			Y			Δ	Y	Δ			
		Speed	Nominal power	FLC	Speed	Nominal power	FLC	Sound power level each fan LwA (+/-2dB(A))	Speed	Nominal power	FLC	Sound power level each fan LwA (+/-2dB(A))	
mm	V	min ⁻¹	Watt	A	min ⁻¹	Watt	A	dB(A)	dB(A)	min ⁻¹	Watt	A	dB(A)
THREE PHASE - 50HZ													
350	3x400/690	1390	190	0,40	1170	140	0,23	73	69	1630	300	0,46	74
400	3x400/690	1370	230	0,44	1110	170	0,27	75	70	1580	370	0,56	76
450	3x400/690	1350	540	1,10	1020	360	0,66	75	70	1560	880	1,40	79
500	3x400/690	1340	840	1,45	940	540	0,96	78	73	1480	1200	2,00	80
450	3x400/690	900	180	0,50	630	100	0,24	66	59	1020	280	0,60	69
500	3x400/690	880	290	0,74	590	150	0,36	68	57	970	440	0,90	71
SINGLE PHASE - 50HZ													
350	1x230	1390	150	0,65				74		1520	230	1,00	72
450	1x230	1390	600	2,90				76		1430	820	3,50	75
500	1x230	1240	720	3,20				77		1260	1000	4,40	77
400	1x230	950	130	0,60				67		1110	170	0,78	68
500	1x230	900	270	1,25				74		900	380	1,75	75
SINGLE PHASE - 60HZ													

Mentioned data are for each fan according the supplier of the fans

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