

BLCA-P Ammonia Product Cooler for Potato



bluecold



Features of Blue Cold Ammonia Product Cooler (BLCA-P)

- High quality power quoted GI steel or Aluminum casing.
- Coils are designed with the contemporary designed for optimized refrigerant distribution.
- Standard SS304 imported tubes for efficient heat transfer and durability.
- High grade Aluminum fins are in corrugated pattern with rippled fin edges. & guided air flow for high efficiency.
- Capacity rating are thermally guaranteed by Blue Cold and tested in accordance to global standard.
- One year warranty for all BLCA heat exchangers.

Blue Cold Select+ Software for Ammonia Product Cooler



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Product :

Model: BLCA750H.3-W
 Cooling Capacity(kW): 22.13
 Refrigerant: R717 (Ammonia)
 Air Inlet (°C): -29
 Evaporation Temp(°C): -35
 Air Flow (m³/hr): 21030
 Air Throw (m)⁽¹⁾: 21
 Feed rate(Pump): 3.5



Fan Details :

Fans: Dia: 500mm X 3 No(s).
 Fan Nominal (kW): 0.6

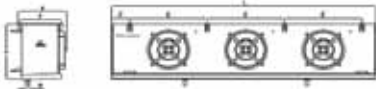
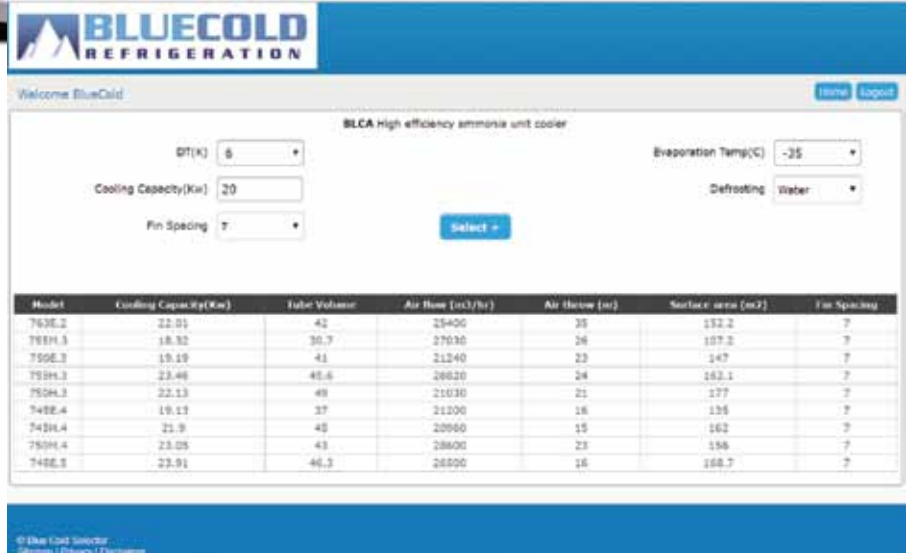
Coil :

Surface Area (m²): 177
 Tube Volume(l): 49
 Fin Spacing (mm): 7
 Inlet Connection (mm): 42.4
 Outlet Connection (mm): 50

Other details :

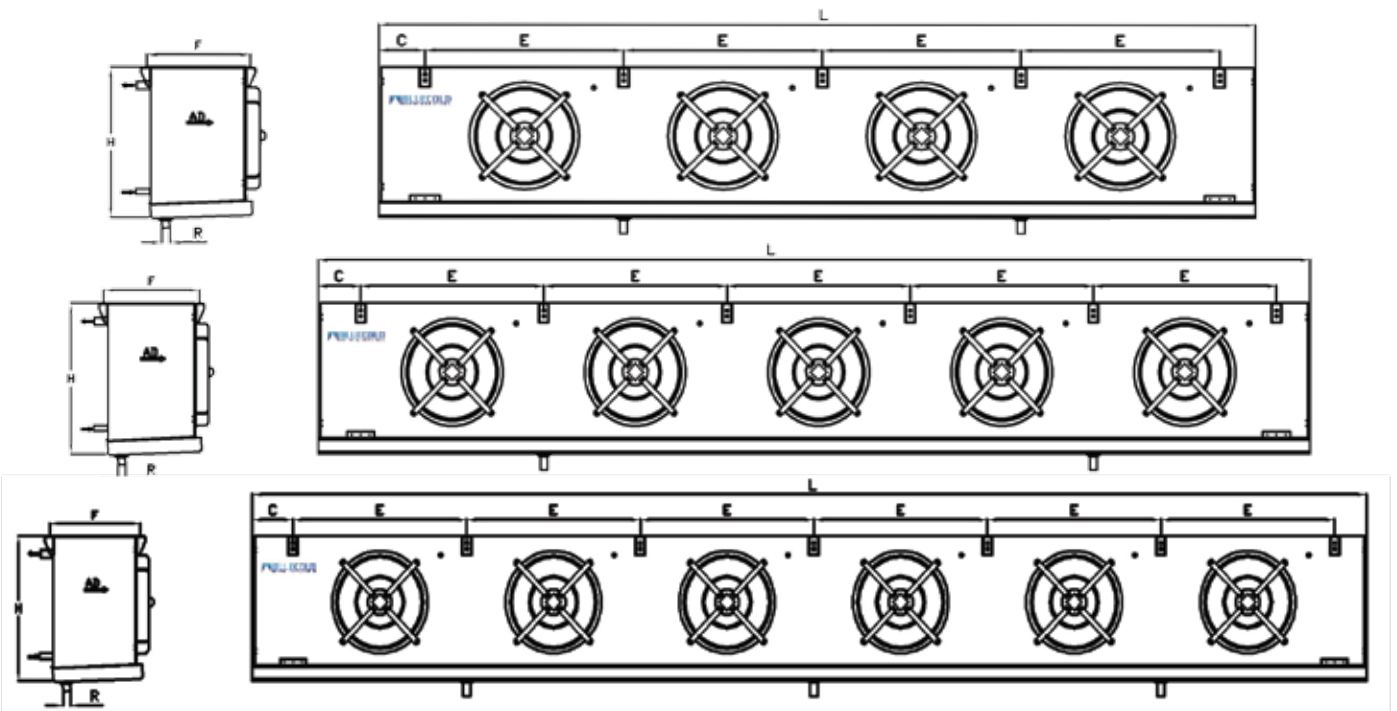
Noise pressure level (dB): 66
 Weight (kg): 247.5
 Casing: AlMg / G.I., Powder Coated
 MOC of Tubes: SS304
 MOC of Fins: Aluminium
 Max. Operating pressure: 32.0 bar
 Defrosting: Water

Dimensions :

Model	Cooling Capacity(Kw)	Tube Volume	Air Flow (m ³ /hr)	Air Throw (m)	Surface area (m ²)	Fin Spacing
763E.2	22.01	42	25400	35	132.2	7
788H.3	18.32	30.7	27030	26	107.2	7
750E.3	19.19	41	21240	23	147	7
750H.3	23.46	45.6	26020	24	163.1	7
750H.3	22.13	49	21030	21	177	7
748E.4	19.13	37	21200	18	135	7
743H.4	21.9	45	20960	15	162	7
750H.4	23.05	43	28600	23	156	7
748E.3	23.91	46.3	26000	16	168.7	7

Geometrical Diagrams



Technical Specifications



Blue Cold Ammonia Product Cooler for Potato with 550 mm dia fan					
Storage Capacity	1250MT	1750MT	2000MT	2500MT	3000MT
No. of Bags	25,000	35,000	40,000	50,000	60,000
Cooling Capacity (TR)	29 TR	41 TR	46 TR	58 TR	69 TR
Cooling Capacity (kW)	102 kW	144 kW	162 kW	204 kW	243 kW
Model Suggested	BLCA 655M.4 A	BLCA 655M.4 A	BLCA655M.5 A	BLCA655M.6 A	BLCA655M.6 A
Quantity	3	4	4	4	5
Data for each product cooler					
No. of Fans	4	4	5	6	6
Cooling Capacity per Evaporator (SST 2°C & TD 7)	45.96 kW	45.96 kW	57.45 kW	68.94 kW	68.94 kW
Air Flow (m3/hr)	35,960	35,960	44,950	53,940	53,940
Air Throw (m)	24	24	24	24	24
Tube Volume (l)	40	40	50	60.9	60.9
Surface Area (m2)	164.5	164.5	205.6	246.72	246.72
Length [L] (mm)	3700	3700	4500	5300	5300
Width [F] (mm)	525	525	525	525	525
Height [H] (mm)	880	880	880	880	880
Fan Brand	Favelle	Favelle	Favelle	Favelle	Favelle
Welding Process	Automated	Automated	Automated	Automated	Automated
Fin Spacing (mm)	6	6	6	6	6

Blue Cold Ammonia Product Cooler for Potato with 630 mm dia fan					
Storage Capacity	1250MT	1750MT	2000MT	2500MT	3000MT
No. of Bags	25,000	35,000	40,000	50,000	60,000
Cooling Capacity (TR)	29 TR	41 TR	46 TR	58 TR	69 TR
Cooling Capacity (kW)	102 kW	144 kW	162 kW	204 kW	243 kW
Model Suggested	BLCA-P-663M.4 A	BLCA-P-663M.5 A	BLCA-P-663M.4 A	BLCA-P-663M.4 A	BLCA-P-663M.5 A
Quantity	2	2	3	4	4
Data for each product cooler					
No. of Fans	4	5	4	4	5
Cooling Capacity per Evaporator (SST 2°C & TD 7)	65.1 kW	81.6 kW	65.1 kW	65.1 kW	81.6 kW
Air Flow (m3/hr)	55,920	69,900	55,920	55,920	69,900
Air Throw (m)	37	37	37	37	37
Tube Volume (l)	54	68	54	54	68
Surface Area (m2)	235	294	235	235	294
Length [L] (mm)	4500	5500	4500	4500	5500
Width [F] (mm)	540	540	540	540	540
Height [H] (mm)	980	980	980	980	980
Fan Brand	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg
Welding Process	Automated	Automated	Automated	Automated	Automated
Fin Spacing (mm)	6	6	6	6	6

Blue Cold Ammonia Product Cooler for Potato with 630 mm dia fan					
Storage Capacity	1250MT	1750MT	2000MT	2500MT	3000MT
No. of Bags	25,000	35,000	40,000	50,000	60,000
Cooling Capacity (TR)	29 TR	41 TR	46 TR	58 TR	69 TR
Cooling Capacity (KW)	102 kW	144 kW	162 kW	204 kW	243 kW
Model Suggested	BLCA-P-663H.4 A	BLCA-P-663H.5 A	BLCA-P-663H.4 A	BLCA-P-663H.4 A	BLCA-P-663H.5 A
Quantity	2	2	3	4	4
Data for each product cooler					
No. of Fans	4	5	4	4	5
Cooling Capacity per Evaporator (SST 2°C & TD 7)	79.3 kW	99.2 kW	79.3 kW	79.3 kW	99.2 kW
Air Flow (m3/hr)	55,600	69,500	55,600	55,600	69,500
Air Throw (m)	33	33	33	33	33
Tube Volume (l)	82	103	82	82	103
Surface Area (m 2)	353	442	353	353	442
Length [L] (mm)	4500	5500	4500	4500	5500
Width [F] (mm)	640	640	640	640	640
Height [H] (mm)	980	980	980	980	980
Fan Brand	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg	Crompton/Marathon/Havells/ Ziehl Abegg
Welding Process	Automated	Automated	Automated	Automated	Automated
Fin Spacing (mm)	6	6	6	6	6



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