

Lloyd's Register of Shipping.

DATA SHEET FOR REFRIGERATING INSTALLATION.

builders Bremer Vulkan Yard No. 716
Refrigerating Machinery Makers Atlas-Werk.
Installation Contractors Messrs. Lohr, Hamburg
Temperatures to be carried and carrying temperatures Fruit.
Templated Voyages _____
An unrestricted certificate or certificate restricted for particular temperatures and/or voyages required _____
Refrigerant used Co₂ No. of refrigerating units 2 Is each unit available for use on all the chambers yes
No. of machines each unit 1 No. of compressors each machine 2 Single or double acting double Compressor bore 3 11/32"
Stroke 6 11/16" Piston rod diameter 1 37/64" Rated revolutions per minute, maximum 385 minimum 300
Displacement volume as percentage of swept volume - Swept volume each machine at max. rated R.P.M., cubic inches per minute -
Indicated horse-power of driving engine or motor - Is any provision made for subcooling liquid refrigerant -
So give particulars -

Refrigerating effect { Sea water 85° F., evaporator 1 ° F. as in service, without liquid subcooling _____ with liquid subcooling _____
U. per hour { Sea water 65° F., evaporator _____ ° F. as in service, without liquid subcooling _____ with liquid subcooling _____
Method of distributing refrigerating effect, brine or direct expansion _____
Condensers, No. 2 Type Tube coils _____
Total surface of tubes in each condenser, square feet 755 Sea water circulating pumps, No. 1
Capacity, gallons per hour each 3800 at head of _____ pounds per square inch. Horse-power of driving motor 8.5
Evaporators, No. 2 Type Tube coils _____
Total surface of tubes in each evaporator, square feet 1187 Brine circulating pumps, No. 3 capacity, gallons per hour _____
Each 17500 at head of 48.75 ft pounds per square inch. Horse-power of driving motor -
System, open or closed type open Number of temperatures of brine that can be circulated simultaneously 2

PARTICULARS OF INSULATED BOUNDARIES.

BOUNDARY	FRAMING IN INSULATION			INSULATION		GROUNDS				
	Depth, inches	Width of face, ins.	Spacing, inches	MATERIAL	Depth, inches	Density, Lb./Ft. ³	Depth, inches	Width, inches	Spacing, inches	Horizontal or Vertical
Card Bulkhead, bridge T.D. level	3 1/8"	3"	30 3/8"	Alfol	7 7/8"	0.248	8 7/8"	2"	30 3/8"	Horizontal
Card Bulkhead, upper T.D. level	3 1/8"	2"	29 1/2" + 25 1/2"	"	7 7/8"	"	8 7/8"	2"	29 1/2" + 25 1/2"	"
Card Bulkhead, main T.D. level	3 1/8"	2"	29 1/2" + 25 1/2"	"	7 7/8"	"	11 3/4"	2"	29 1/2" + 25 1/2"	"
Card Bulkhead, lower T.D. level	5 1/4"	1 1/4"	29 1/2"	"	7 7/8"	"	11 3/4"	2"	29 1/2"	"
Card Bulkhead, hold level	2 1/8"	1 1/4"	29 1/2"	"	7 7/8"	"	11 3/4"	2"	29 1/2"	"
Bulkhead, bridge T.D. level	3 1/8"	2"	27 1/8"	Alfol	7 7/8"	"	8 7/8"	2"	27 1/8"	"
Bulkhead, upper T.D. level	3 1/8"	2"	27 1/8"	"	9 7/8"	"	10 3/8"	2"	27 1/8"	"
Bulkhead, main T.D. level	3 1/8"	2"	27 1/8"	"	9 7/8"	"	10 3/8"	2"	27 1/8"	"
Bulkhead, lower T.D. level	5 1/4"	7"	27 1/8"	"	9 7/8"	"	10 3/8"	2"	27 1/8"	"
Bulkhead, hold level	5 1/2"	7"	27 1/8"	"	9 7/8"	"	10 3/8"	2"	27 1/8"	"
Side, bridge T.D. level	7 1/2"	1 3/8"	27 1/2"	Alfol	9 7/8"	"	10 3/8"	2"	27 1/2"	"
Side, upper T.D. level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	"	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, main T.D. level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	"	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, lower T.D. level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	"	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, hold level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	"	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Over	5 1/8"	1 1/4"	27 1/2"	"	7 7/8"	"	9 1/4"	2"	27 1/2"	"
Under	3 1/8"	3"	27 1/2"	Tarfoleum	5 7/8"	187	5 7/8"	2"	27 1/2"	Cross
Top	3 1/8"	3"	27 1/2"	Tarfoleum	5 7/8"	187	5 7/8"	2"	27 1/2"	Cross
Trunk bulkheads										
Card Bulkhead, bridge T.D. level										
Card Bulkhead, upper T.D. level	3 1/8"	2"	27 1/8"	Alfol	9 7/8"	0.248	10 3/8"	2"	27 1/8"	Horizontal
Card Bulkhead, main T.D. level	3 1/8"	2"	27 1/8"	"	9 7/8"	"	10 3/8"	2"	27 1/8"	"
Card Bulkhead, lower T.D. level	3 1/8"	2"	27 1/8"	"	9 7/8"	"	10 3/8"	2"	27 1/8"	"
Card Bulkhead, hold level										
Bulkhead, bridge T.D. level										
Bulkhead, upper T.D. level	3 1/8"	3"	30 3/8"	Alfol	7 7/8"	"	8 7/8"	2"	30 3/8"	"
Bulkhead, main T.D. level	3 1/8"	3"	30 3/8"	"	7 7/8"	"	8 7/8"	2"	30 3/8"	"
Bulkhead, lower T.D. level	5 1/4"	1 1/4"	27 1/8"	"	7 7/8"	"	8 7/8"	2"	27 1/8"	"
Bulkhead, hold level										
Side, bridge T.D. level					10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, upper T.D. level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	Alfol	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, main T.D. level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	"	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, lower T.D. level	9 1/4" + 7 1/8"	1 3/8" + 1 1/4"	27 1/2"	"	10 3/8" + 8 3/8"	"	11 3/4" + 9 7/8"	2"	27 1/2"	"
Side, hold level	5 1/8"	1 1/4"	27 1/2"	Alfol	9 7/8"	"	9 1/4"	2"	27 1/2"	"
Over	5 1/8"	1 1/4"	27 1/2"	Alfol	9 7/8"	"	9 1/4"	2"	27 1/2"	"
Under	3 1/8"	3"	27 1/2"	Tarfoleum	9 1/2" + 6 5/16"	187	9 1/2" + 6 5/16"	3"	27 1/2"	Cross
Top	3 1/8"	3"	27 1/2"	Tarfoleum	9 1/2" + 6 5/16"	187	9 1/2" + 6 5/16"	3"	27 1/2"	Cross
Trunk bulkheads										

Material and thickness of insulation linings Bulkheads T & G, lining 7/8", shell plating and decks T.G. lining 1/2", Tank Top 2" oregon. In way of hatchways 2" oregon.

Total external exposed surface of insulating envelope including cooler houses and evaporator rooms 37,500 square feet.
Decks inside insulated envelope, total peripheral length of edges exposed to external conditions 1128 feet. Are these decks insulated on _____
side, on both sides or on neither side neither

Bulkheads inside insulated envelope, total peripheral length of edges exposed to external conditions 138 feet. Are these bulkheads insulated on _____
side, on both sides or on neither side on both sides 4 1/8" Alfol and 2" air.

HEAT INFLOW B.T.U. PER HOUR

With chambers at 15° F.

With chambers at _____
as in service

Through insulated envelope 672 m^2 above water, 1490 m^2 under water

$$17700 + 8870 = 26$$

Along decks. 1050 m²

Along bulkheads. 265 m²

From fans.....137600 B. T. U.

From brine pumps 39750 "

From vital heat of cargo, 1100 tons at 1125 B.T.U. per hour per ton

TOTAL

1.4767

1,470

External diameter of chamber grid piping.

battery coils..... 48 m/m

thickness..... 5 m/m

...thickness

..External diameter of on t

What provision is made for defrosting

...are coils across or parallel to air flow

across

What provision is made for air refreshing

Are the fan motors inside or outside the insulated envelope. **inside**

Are the fans reversible..... Yes

[illegible]