INSAFOAM

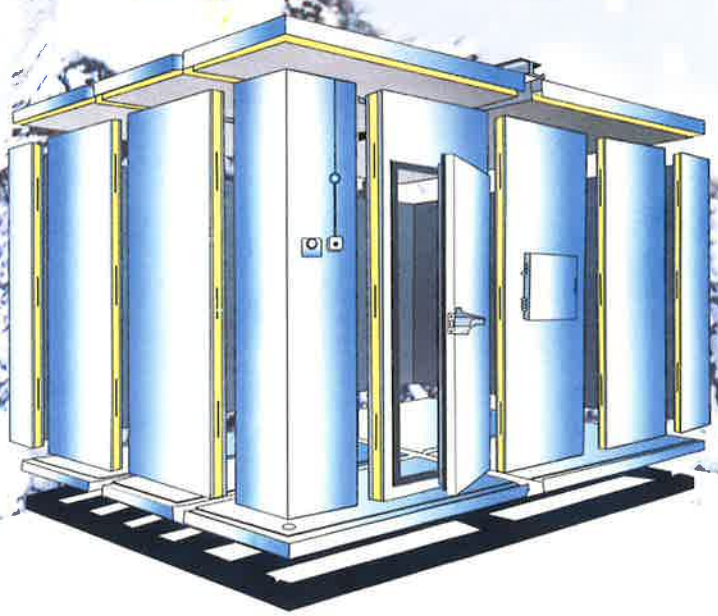
Certificate Number 2174

INSAFOAM

Design, Supply Installation of Foamwall, Ceiling Panel and Refrigerated Trucks Containers.

Walk in Coldroom

with Cyclopentane (C5) System



INSAFOAM COLDROOM SYSTEMS

The **Insafoam Coldroom Systems** has been designed with you the end-user in mind. All the technical requirements have been resolved to ensure that your food is stored at the correct temperature.

The maximum product temperature are:

Provision and Produce	+ 8°	centrigrade.
Fresh Meat and Poultry	+ 0° to + 5°	centrigrade.
Frozen Food	+ 20° to - 25°	centrigrade.

To ensure the integrity of the system the composite cooling unit incorporates the latest electronic temperature control and display module as well as automatic defrosting of the cooling coil.

The package cooling unit has been engineered to maintain the product at its optimum storage temperature.

Insafoam Coldroom Systems supply modular fully insulated coldroom complete with package refrigeration units engineered for each particular requirement.

Various units are offered to ensure that the storage temperature complies with the latest food storage regulation.

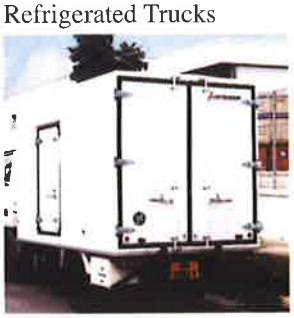
In addition **Insafoam Coldroom Systems** manufacture a comprehensive range of CFC free Cyclopentane (C5) System insulated panels for commercial application.

All insafoam panels are manufactured from Kemlite or white food-safe epoxy coated Colour Bond steel with 80mm, 100mm, 125mm, 150mm or 200mm thick C.F.C free Cyclopentane (C5) System polyurethane insulation, on customers request depending on it's application.

This insulation is moulded at high pressure to form a tongue and groove joint which creates a perfect seal using a Cam Locking System or "H" bar system.

Insafoam Coldroom Systems are suitable for Hotels, Restaurants, Catering Establishments, Hospitals and General Food Outlets.

Refrigerated Trucks



INDUSTRIAL WALL & CEILING PANELS FOR CLEAN ROOMS

These panels are produced in a double band laminator, in which two continuously moving belts of galvanized steelsheed are firmly bonded together by the sprayed-in insulating foam which hardens during this process.

THICKNESS
40mm, 50mm, 60mm, 80mm, 100mm, 125mm, 150mm, 200mm (Any thickness can be requested)
Thickness torelance = +1 -3mm
Density: Any density can be requested

MODULE
Useful width = 1200mm
Overall width = 1216mm
Width tolerance = +3 - 1mm

LENGTH
Length to order
Minimum length = 2000mm
Maximum length = 12000mm
(The maximum length is actually governed by transport and errection possibilities)
Length tolerance = +5 -5m

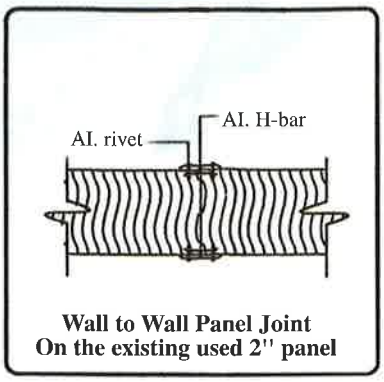
Theorectical Weight Standard Panels:
Thickness 40mm = abt. 12,35kg/m²
Thickness 50mm = abt. 12,5kg/m²
Thickness 60mm = abt. 13,15kg/m²
Thickness 80mm = abt. 13,95kg/m²
Thickness 110mm = abt. 15,15kg/m²
Thickness 140mm = abt. 16,35kg/m²
Thickness 170mm = abt. 17,55kg/m²
Thickness 200mm = abt. 18,75kg/m²
Additional weight of foamed-in steel reinforcement strips: about 0,670 kg/m²

INSULATION
Rigid polyurethane foam (PUR)
injected density abt. 40kg/m³, +/- 5kg/m³
density of core=min. 30kg/m³
theoretical thermal conductivity (value) = 0,020 W/mK
practical thermal conductivity (value) = 0,0213 W/mK
fire resistance foam = B2
at request rigid polyisocyanurate foam (PIR)
fire resistance foam = B2
thermal transmission factor is "K-value" expressed in W/m²K

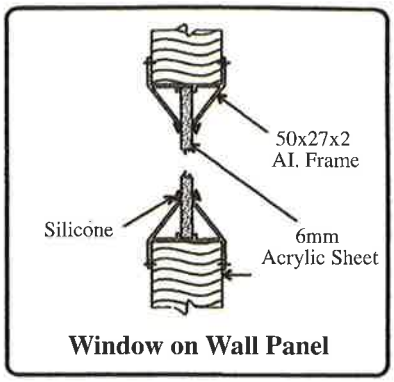
THEORETICAL K-VALUE:
Thickness 40mm = 0,531 W/m²K
Thickness 50mm = 0,472 W/m²K
Thickness 60mm = 0,355 W/m²K
Thickness 80mm = 0,265 W/m²K
Thickness 110mm = 0,193 W/m²K
Thickness 140mm = 0,151 W/m²K
Thickness 170mm = 0,124 W/m²K
Thickness 200mm = 0,106 W/m²K

PRACTICAL K-VALUE:
Thickness 40mm = 0,57 W/m²K
Thickness 50mm = 0,46 W/m²K
Thickness 60mm = 0,38 W/m²K
Thickness 80mm = 0,29 W/m²K
Thickness 110mm = 0,21 W/m²K
Thickness 140mm = 0,16 W/m²K
Thickness 170mm = 0,14 W/m²K
Thickness 200mm = 0,11 W/m²K

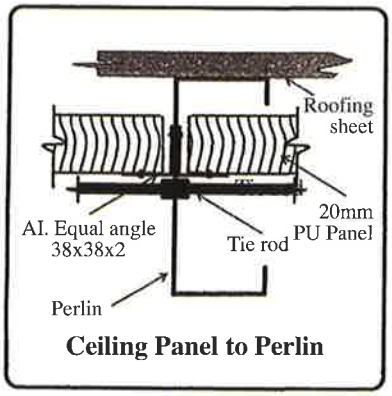
PROFILE OF HANGING SUSPENSION & WALL JOINTING



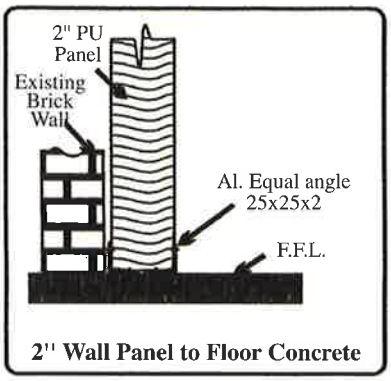
Wall to Wall Panel Joint
On the existing used 2'' panel



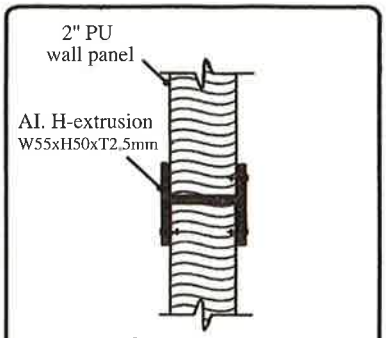
Window on Wall Panel



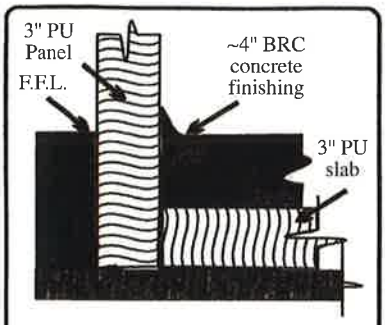
Ceiling Panel to Perlin



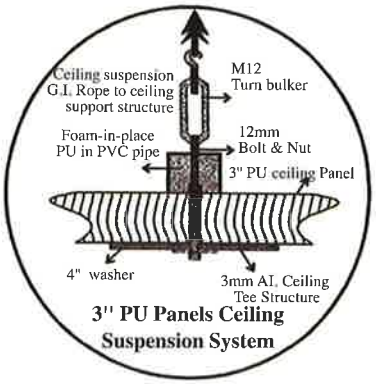
2'' Wall Panel to Floor Concrete



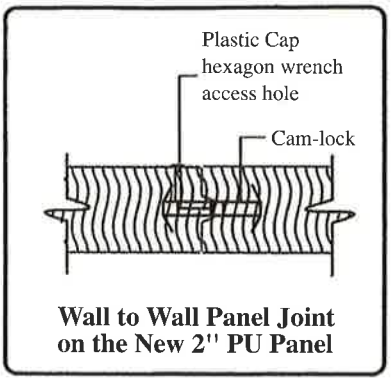
Wall Top & Bottom Panel Joint



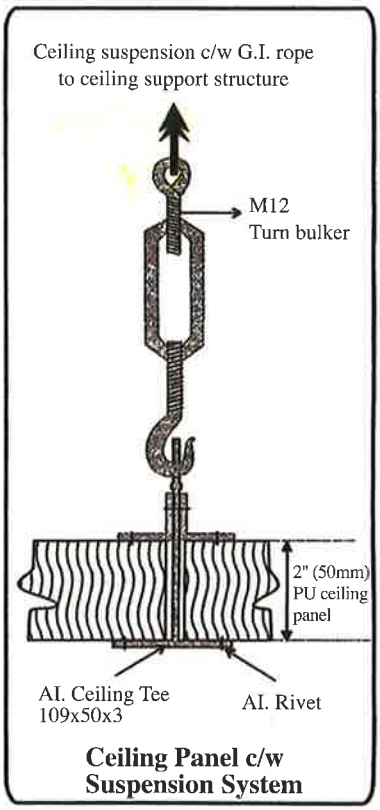
3'' Wall to Floor Slab Joint



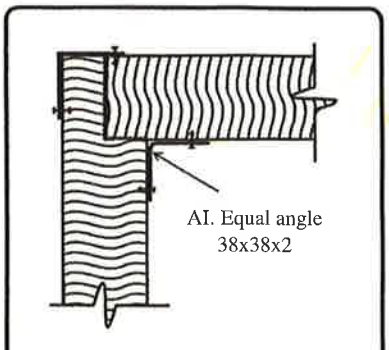
3'' PU Panels Ceiling
Suspension System



Wall to Wall Panel Joint
on the New 2'' PU Panel



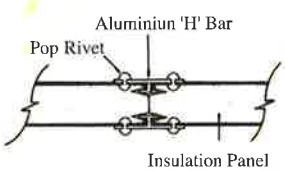
Ceiling Panel c/w
Suspension System



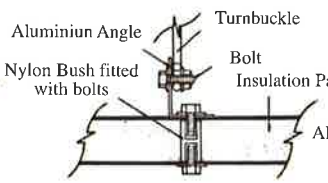
Ceiling to Wall Joint

PANEL JOINTS

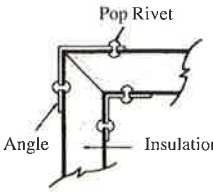
The superior quality panel joints are utilised to secure all foamwall, ceiling and floor panels together.



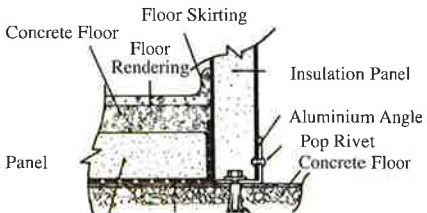
'H' BAR JOINT



SUSPENSION JOINT



MITRE - JOINT



FLOOR JOINT

INDUSTRIAL REFRIGERATION DOOR

(Local)

COLDROOM DOORS

The insulated access door sections are manufactured in both swing and sliding types to suit site requirement as for coldroom walls. For the room where operating temperature is below freezing point, heater wires shall be placed behind the metal edge around the entire perimeterof the door jamb to prevent condensation and frost formation.

SWING DOOR

Swing Door - The latch and strike assembly shall be chrome plated finished and made to accommodate a padlock but shall include an inside safety release mechanism to prevent entrapment of personnel. Hinges shall be cam-lift type with same finish as the latch.

Swing Door **(Internal COLDROOM Lightings)** **Compressor**

SLIDING DOOR

Sliding Door - The sliding door shall be double-acting executed, moving outward when open and moving inward when being closed. The door is operated by lever-handle system and being complete with internal safety release.

Strip Curtain - Tranparent strip curtain can be installed at door openings for freezer system or optional for Chiller room. The curtains shall minimize energy loss, prevent moisture, dust and insects.

Sliding Door (With Strip Curtain)

Sliding Door (Front View)

Sliding Door (Interior View)

Sliding Door Handle

INDUSTRIAL REFRIGERATION DOOR

(Imported)

"SLIDING DOOR"
The sliding door for controlled atmosphere can be employed for gas tight ripening rooms and in all other applications wherever is required a perfect sealing but with temperature not lower than -5C°

"TO AND FRO" type
The "TO AND FRO" type door is destined for the separation of work rooms with a heavy traffic of people or trolleys.

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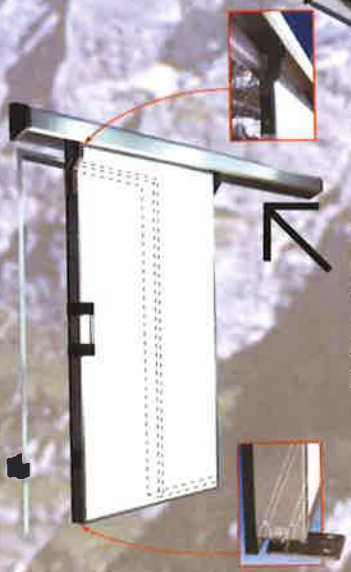
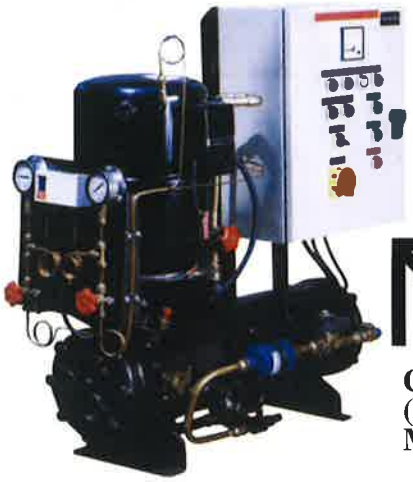


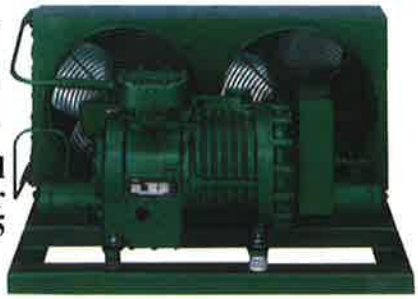
480 S NO FRAME
Exceptionally sturdy door because it has the present components of the 480 S but with modified pulley to allow connection from the panel to the cell.

480 TN DOUBLE BLADE
This door has been developed either for big sized applications, or for situations where the sliding involves some space problems.

WALLET DOOR
This door has been projected to be installed where there is lack of room allowing vertical and horizontal opening, such as loading points and small cold rooms at positive and negative temperature.

AIR COOLED CONDENSER





Bitzer Semi-Seal Compressor
Model : 4Z-8.2-T105

Copeland Hermetic Compressor (Water Cooled Condenser)
Model : QR 12M1-MHSE 10

DWM Copeland Semi-Seal Compressor
Model : DLL-201-Q8

Copeland Hermetic Compressor
Model CRJQ-0300-Q10

Maneurop Hermetic Compressor
Model : MT22-Q4

Emerson ZX/ZXL Condensing Unit

Danfoss Optyma Slim Pack Condensing Unit

BRIEF ESTIMATION OF AIR COOLED CONDENSER

SUCTION COOLED HERMETIC / SEMI HERMETIC COMPRESSOR (Table A)

CONDENSING TEMP. °C	EVAPORATOR TEMP. °C									
	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	1.831	1.740	1.661	1.592	1.536	1.490	1.398	1.354	1.321	1.276
40	1.930	1.825	1.744	1.674	1.604	1.558	1.463	1.418	1.372	1.338
45	2.049	1.919	1.824	1.753	1.694	1.623	1.537	1.479	1.433	1.398
50	2.210	2.041	1.932	1.847	1.787	1.715	1.614	1.555	1.508	1.449

Above factor strictly on estimation.

SELECTION EXAMPLE : MT 28

Compressor Capacity (watt.) : 4700
Evaporator Temperature : -5°C
Refrigerant : R22
Ambient Air : 35°C
Maximum Condensing : 50°C

PROCEDURE:

1. Assuming the compressor manufacturers heat-rejection data is not available, determine the heat rejection factors for the specified conditions from Table A above.
2. Multiply the compressor capacity by the heat rejection factor to estimate the required condenser capacity.

SELECTION:

Using the heat rejection factor from table above, the required condenser capacity is:

1.614 X 4700 = 7,585.8 watt (25,890.34 Btu/Hr)

For the Above calculation, we select model : Q5 with Capacity of 27,747 Btu/Hr

CONVERSION:

°C = 5/9 (°F-32)

°F = 9/5 (°C + 17.78)

1 KCA/HR = 3.968 BTU/HR

1 WATT = 3.413 BTU/HR

1 INCH = 25.4 MM

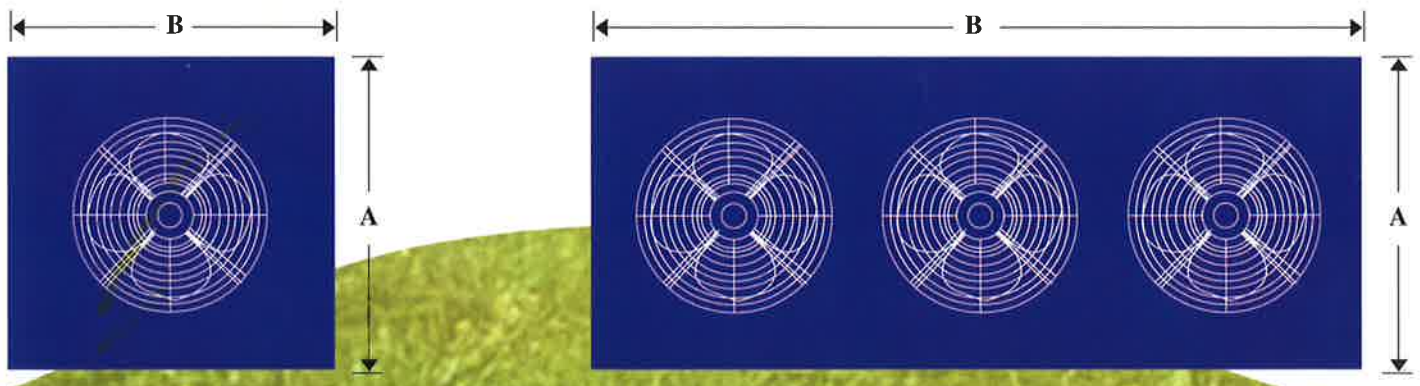
SPECIFICATION (Table B)

MODEL	Q3	Q4	Q5	Q6	Q8	Q10	T53	T
CAPACITY TD 15^{0}C (KW) (BTU/HR)	5.54 18902	6.90 23553	8.13 27747	10.35 35315	12.50 42662	14.16 48332	15.62 53315	18 63
AIR FLOW (CMH)	3003	2744	2645	4115	3960	4608	4779	48
NO. OF MOTORS & FANS	1	1	1	1	1	1	1	
FAN BLADE DIA.	14"	14"	14"	16"	16"	16"	18"	1
MOTOR OUTPUT (watt.)	90	90	90	120	120	120	120	1
VOLTAGE/ PHASE	415/3	415/3	415/3	415/3	415/3	415/3	415/3	41
APPROX. DIMENSION **A (MM)** **B (MM)** **C (MM)** **D (MM)**	 420 494 156 372	 420 494 178 394	 420 494 202 418	 500 545 201 424	 500 545 201 424	 524 697 224 447	 550 739 236 459	 6 8 2 4
DISCHARGE LINE CONNECTION (Dia)	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"	7
LIQUID LINE CONNECTION (Dia)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1
APPROX. WEIGHT (KG)	11	13	15	16	18	23	27	3

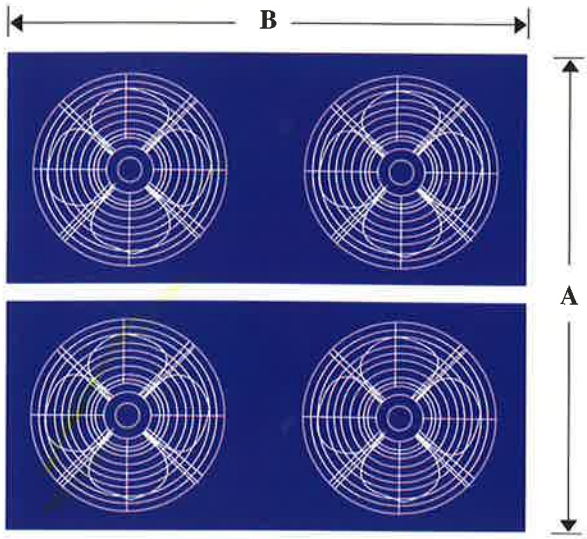
T.D. = Condensing temperature -Ambient air temperature
1 KW = 3413 BTU/HR

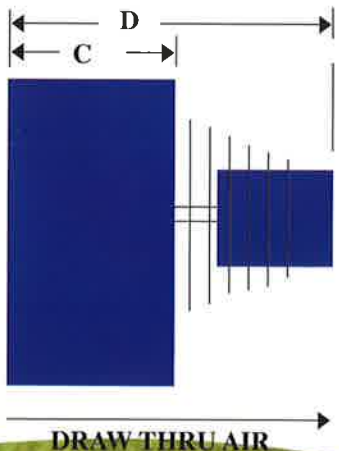
Capacity Correction Factors

Refrig.	R404A	R507	R22	R407C	R134A	R407B
Capac. Mult.	1.049	1.045	1.000	0.970	0.965	0.975



	T75	T83	T105	T128	T151	U202	U265	U303	U305	U405
	21.87 74648	24.32 83000	31.02 105865	37.67 128570	44.47 151780	59.27 202272	77.61 264880	88.9 303408	88.94 303561	118.53 404544
	7117	6907	10093	9844	14471	14942	25262	22412	28942	29883
	1	1	2	2	2	2	3	3	4	4
	20"	20"	18"	18"	20"	20"	20"	20"	20"	20"
	373 X 1	373 X 1	120 X 2	120 X 2	373 X 2	373 X 2	373 X 3	373 X 3	373 X 4	373 X 4
	240/1	240/1	415/3	415/3	240/1	240/1	240/1	240/1	240/1	240/1
	600 882 236 465	600 882 236 465	674 1100 247 470	800 1262 240 463	800 1262 240 469	820 1563 263 492	820 2322 220 449	820 2322 263 492	1600 1262 240 469	1640 1563 263 492
	7/8"	7/8"	7/8"	7/8"	7/8"	1-1/8"	1-3/8"	1-3/8"	7/8"	1-1/8"
	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	7/8"	7/8"	5/8"	5/8"
	36	42	56	78	72	106	138	193	144	212



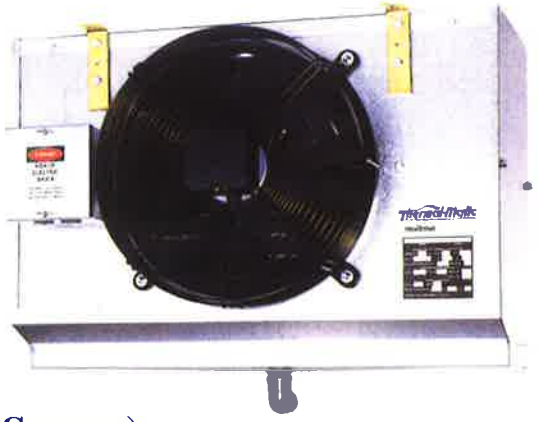


UNIT COOLER

FEATURE (Standard Models)

Housing :

Self supporting construction made of texture corrosion resistance stucco embossed aluminium, which enables easy cleaning.
Water drainage made of union connection size 3/4" ø & 1" ø.
Brackets for ceiling-installation, made of 5mm thick Mild-Steel.



Cooling Coil :

Finned coils are designed with corrugated surface aluminium fin (4 Fin / 6 Fin Per Inch).
Copper tube 12.7mm Dia. & 9.5mm Dia. copper tube

* Pressure Test : All coils are pressure tested to 350 - 400 psig.

Fan (State of the art sickle blade fans from EBM and Ziehl - Abegg- Germany):

Axial fans, designed for low noise level
-Protection class IP 54 acc. to DIN 40050
-For temperature from -30°C up to +40°C
-Motor Protection :- internally wired thermal contacts.
-All fans are 2-speed type (Y-Δ-changeover)

Defrost :

Electrical coil and drain pan heater are wired to terminal block enclosed within a junction box. (for EP series only)

Thermal overload is fitted as standard in EP series unit cooler to prevent heater overheating.

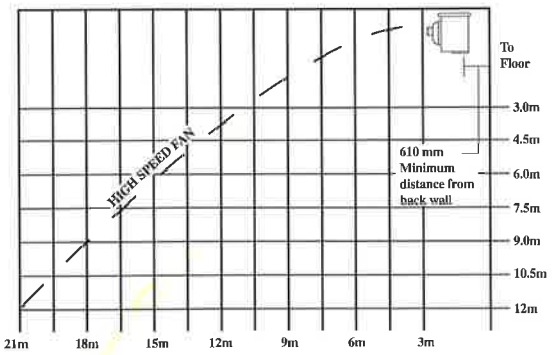
Option :

*Chemical coated aluminium fin
*Copper fin
*Chilled water or brine solution system
*Stainless steel casing
*Fin spacing: 3 FPI / 2 FPI for blast freezing application
*Floor mounting type

Note :

For unit operation below room temperature -30°C or evaporating temperature below -35°C, please contact our sales representative for advise.

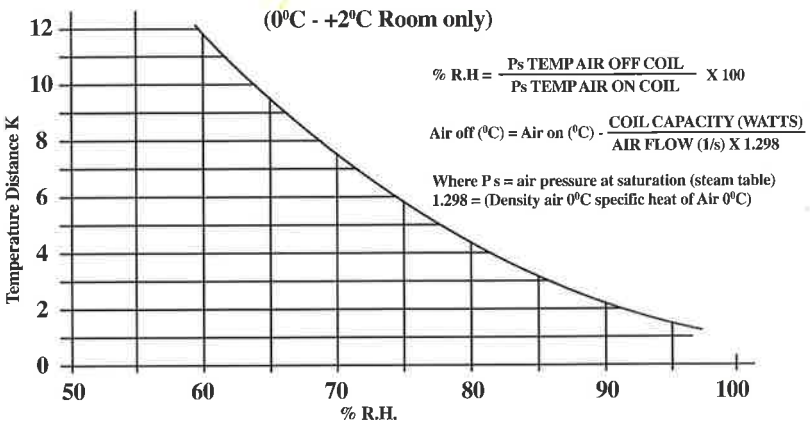
Approximate Air Throw Data



Air Throw (Free Discharge)

Air throw shown is of Normal Air Throw distance base on free discharge, free icing condition, and no obstruction of discharge and suction return.

Approximate Relative Humidity



Relative Humidity Selection

As the air volume and capacity ratio will vary from model to model, the relative humidity graph reading can only be regarded as an approximate value.
The operating humidity of a room (one product is down to temperature) can be predicted (within 5%) by applying the following abbreviated formula to a proposed evaporator which has specific capacity and air flow listed in the specification tables.

MODEL EP - LOW TEMPERATURE EVAPORATORS - 4FPI

TECHNICAL SPECIFICATIONS

CAPACITY BASED ON -28.8^0 EVAPORATING TEMPERATURE AND 5.5K TEMPERATURE DIFFERENCE

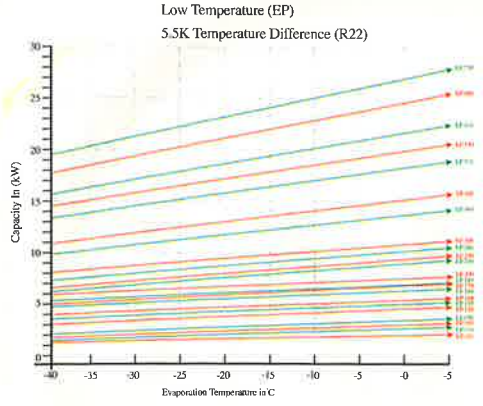
MODEL	EP 050	EP 070	EP 080	EP 090	EP 120	EP 135	EP 148	EP 160	EP 178	EP 180	EP 200
CAPACITY											
BTU/HR	5230	7000	8000	9000	12500	13500	14800	16735	17800	18000	20016
WATTS	1532	2051	2344	2637	3662	3955	4336	4903	5215	5274	5865
AIR FLOW											
CMH	3026	2983	2898	2710	7506	5967	5799	7623	5418	7188	7922
CFM	1781	1756	1706	1595	4418	3512	3413	4487	3189	4231	4663
FAN MOTOR											
FAN DIA. (MM) X NOS	350	350	350	350	450	350x2	350x2	450	350x2	450	450
TOTAL WATT / AMP	130/0.58	130/0.58	130/0.58	130/0.58	360/0.82	260/1.16	260/1.16	360/0.82	260/1.16	360/0.82	360/0.82
PHASE / HZ	1/50	1/50	1/50	1/50	3/50	1/50	1/50	3/50	1/50	3/50	3/50
HEATER (Total watts)											
COIL	1250	1250	1250	1875	2210	2210	2210	3315	3315	3315	3315
DRAIN PAN	300	300	300	300	495	495	495	495	495	495	495

MODEL	EP 230	EP 250	EP 280	EP 300	EP 380	EP 420	EP 500	EP 550	EP 600	EP 680	EP 750
CAPACITY											
BTU/HR	23714	25491	28250	30715	38000	42000	50390	55350	60000	68000	75218
WATTS	6948	7469	8277	8999	11134	12306	14764	16217	17580	19924	22039
AIR FLOW											
CMH	8526	8080	7647	8249	12539	16847	15181	19114	17371	30212	28203
CFM	5018	4756	4501	4855	7380	9916	8935	11250	10224	17782	16600
FAN MOTOR											
FAN DIA. (MM) X NOS	500	500	500	500	450x2	450x2	450x2	500x2	500x2	500x3	500x3
TOTAL WATT / AMP	520/1.5	520/1.5	520/1.5	520/1.5	720/1.64	720/1.64	720/1.64	1040/3.0	1040/3.0	1560/4.5	1560/4.5
PHASE/ HZ	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50
HEATER (Total watts)											
COIL	3315	4420	4420	4420	6340	7635	7635	7635	10180	9075	9075
DRAIN PAN	495	495	495	495	685	1070	1070	1070	1070	1260	1260

PHYSICAL DATA

MODEL	EP 050	EP 070	EP 080	EP 090	EP 120	EP 135	EP 148	EP 160	EP 178	EP 180	EP 200	EP 230	EP 250	EP 280	EP 300	EP 380	EP 420	EP 500	EP 550	EP 600	EP 680	EP 750
COIL INLET(mm)	12.70															15.88						
SUCTION (mm)	22.20							28.60									34.90					54.00
DRAIN(mm)	19.00				25.00																	
APPR OX. WEIGHT KG	24	27	29	34	47	49	56	50	68	55	58	66	71	78	82	103	117	145	159	173	175	191

SELECTION DIAGRAM

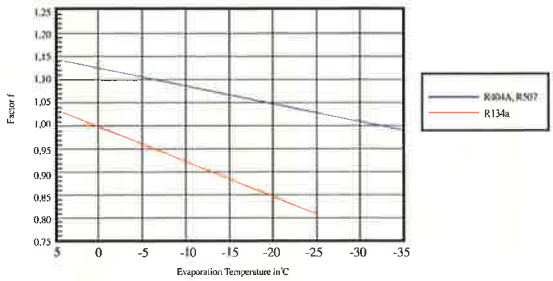


TD CORRECTION FACTOR- (FOR ALL MODEL)

TD (K)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
Correction Factor	0.81	0.90	1.00	1.09	1.18	1.27	1.36	1.45	1.54	1.63	1.72	1.81

Capacities with R134a, R404A and R507

When using these refrigerants the catalogue rated capacity has to be multiplied with the factor f of the following diagram.



MODEL RUC - NORMAL TEMPERATURE EVAPORATORS - 6FPI

TECHICAL SPECIFICATIONS

CAPACITY BASED ON -3.88^{0}C EVAPORATING TEMPERATURE AND 5.5K TEMPERATURE DIFFERENCE

MODEL	RUC 078	RUC 100	RUC 120	RUC 150	RUC 200	RUC 215	RUC 235	RUC 270	RUC 280	RUC 290	RUC 330
CAPACITY											
BTU/HR	7800	10150	12000	14850	20625	21500	23500	27612	28000	29700	33026
WATTS	2285	2974	3516	4351	6043	6299	6885	8090	8204	8702	9677
AIR FLOW											
CMH	2921	2763	2649	2491	6991	5525	5297	7238	4918	6996	7521
CFM	1719	1626	1559	1466	4115	3252	3118	4260	2932	4118	4427
FAN MOTOR											
FAN DIA. (MM) X NOS	350	350	350	350	450	350x2	350x2	450	350X2	450	450
TOTAL WATT / AMP.	130/0.58	130/0.58	130/0.58	130/0.58	360/0.82	260/1.16	260/1.16	360/0.82	260/1.16	360/0.82	360/0.82
PHASE/ HZ	1/50	1/50	1/50	1/50	3/50	1/50	1/50	3/50	1/50	3/50	3/50

MODEL	RUC 390	RUC 420	RUC 460	RUC 500	RUC 620	RUC 690	RUC 830	RUC 910	RUC 990	RUC 1100	RUC 1200
CAPACITY											
BTU/HR	39128	42060	46612	50680	62700	69300	83143	91328	99000	112200	124110
WATTS	11464	12323	13657	14849	18371	20305	24361	26759	29007	32874	36364
AIR FLOW											
CMH	8116	7756	7030	7632	17501	15977	14421	16141	15901	28353	26368
CFM	4777	4565	4138	4492	10301	9404	8488	9500	9359	16688	15520
FAN MOTOR											
FAN DIA. (MM) X NOS	500	500	500	500	450x2	450x2	450x2	500x2	500x2	500x3	500x3
TOTAL WATT / AMP.	520/1.5	520/1.5	520/1.5	520/1.5	720/1.64	720/1.64	720/1.64	1040/3.0	1040/3.0	1560/4.5	1560/4.5
PHASE/ HZ	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50

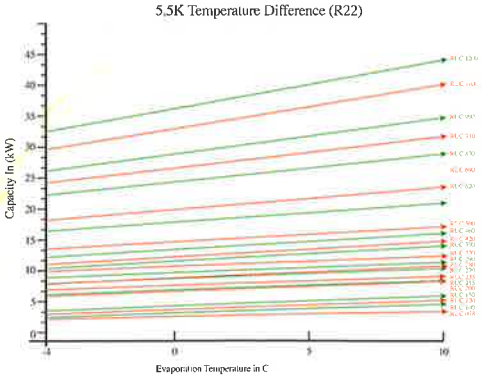
PHYSICAL DATA

MODEL	RUC 078	RUC 100	RUC 120	RUC 150	RUC 200	RUC 215	RUC 255	RUC 270	RUC 280	RUC 290	RUC 330	RUC 390	RUC 420	RUC 460	RUC 500	RUC 620	RUC 690	RUC 830	RUC 910	RUC 990	RUC 1100	RUC 1200
COIL INLET(mm)	12.70															15.88						
SUCTION (mm)	22.20					28.60										34.90					54.00	
DRAIN(mm)	19.00				25.00																	
APPROX. WEIGHT (KG)	23	25	27	31	45	47	54	48	65	52	55	63	68	74	78	99	113	140	155	168	171	187

SELECTION DIAGRAM

Low Temperature (RUC)

5.5K Temperature Difference (R22)

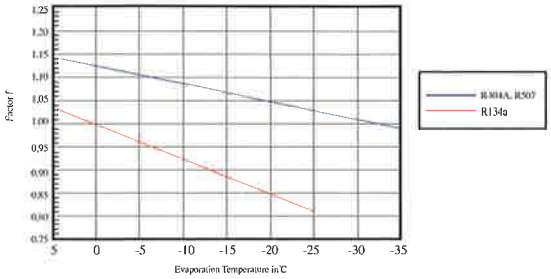


TD CORRECTION FACTOR- (FOR ALL MODEL)

TD (K)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
Correction Factor	0.81	0.90	1.00	1.09	1.18	1.27	1.36	1.45	1.54	1.63	1.72	1.81

Capacities with R134a, R404A and R507

When using these refrigerants the catalogue rated capacity has to be multiplied with the factor f of the following diagram.



MODEL NEP- NORMAL TEMPERATURE EVAPORATORS - 4FPI

TECHICAL SPECIFICATIONS

CAPACITY BASED ON -3.88^{0}C EVAPORATING TEMPERATURE AND 5.5K TEMPERATURE DIFFERENCE

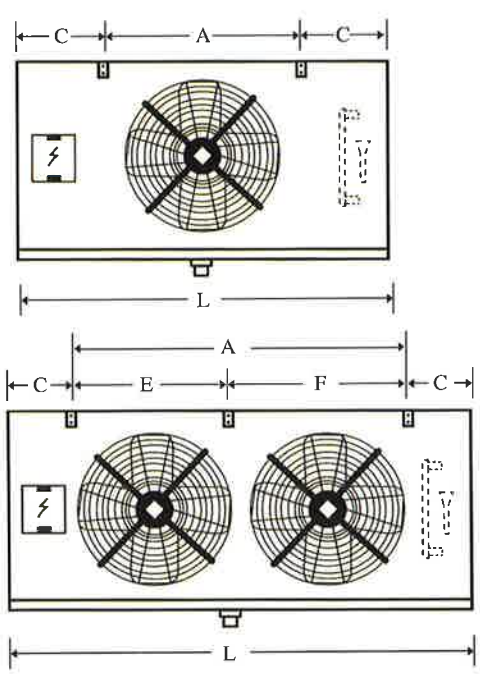
MODEL	NEP 050	NEP 070	NEP 080	NEP 090	NEP 120	NEP 135	NEP 148	NEP 160	NEP 178	NEP 180	NEP 200
CAPACITY											
BTU/HR	6196	8337	9521	10706	14851	16036	17585	19863	21138	21366	23781
WATTS	1815	2442	2789	3136	4351	4698	5152	5819	6193	6260	6967
AIR FLOW											
CMH	3026	2983	2898	2710	7506	5967	5799	7623	5418	7188	7922
CFM	1781	1756	1706	1595	4418	3512	3413	4487	3189	4231	4663
FAN MOTOR											
FAN DIA. (MM) X NOS	350	350	350	350	450	350x2	350x2	450	350X2	450	450
TOTAL WATT / AMP.	130/0.58	130/0.58	130/0.58	130/0.58	360/0.82	260/1.16	260/1.16	360/0.82	260/1.16	360/0.82	360/0.82
PHASE/ ZH	1/50	1/50	1/50	1/50	3/50	1/50	1/50	3/50	1/50	3/50	3/50

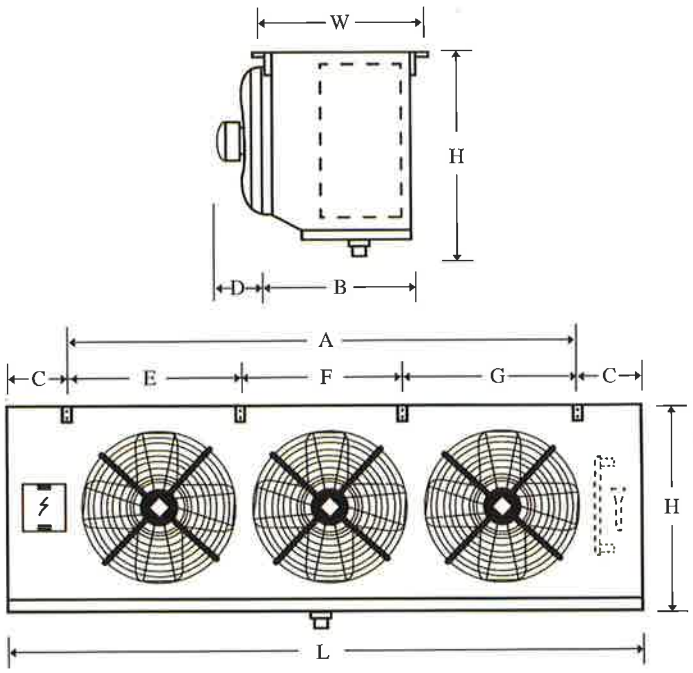
MODEL	NEP 230	NEP 250	NEP 280	NEP 300	NEP 380	NEP 420	NEP 500	NEP 550	NEP 600	NEP 680	NEP 750
CAPACITY											
BTU/HR	28154	38295	33575	36491	45147	49885	59861	65738	71296	80772	89337
WATTS	8249	8876	9837	10691	13227	14616	17539	19261	20889	23666	26175
AIR FLOW											
CMH	8526	8080	7647	8249	18803	16847	15181	19114	17371	30212	28203
CFM	5018	4756	4501	4855	11067	9916	8935	11250	10224	17782	16600
FAN MOTOR											
FAN DIA. (MM) X NOS	500	500	500	500	450x2	450x2	450x2	500x2	500x2	500x3	500x3
TOTAL WATT / AMP.	520/1.5	520/1.5	520/1.5	520/1.5	720/1.64	720/1.64	720/1.64	1040/3.0	1040/3.0	1560/4.5	1560/4.5
PHASE/ ZH	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50	3/50

PHYSICAL DATA

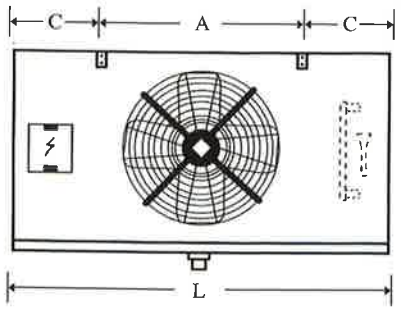
MODEL	NEP 050	NEP 070	NEP 080	NEP 090	NEP 120	NEP 135	NEP 148	NEP 160	NEP 178	NEP 180	NEP 200	NEP 230	NEP 250	NEP 280	NEP 300	NEP 380	NEP 420	NEP 500	NEP 550	NEP 600	NEP 680	NEP 750
COIL INLET(mm)	12.70															15.88						
SUCTION (mm)	22.20								28.60							34.90					54.00	
DRAIN(mm)	19.00				25.00																	
APPROX. WEIGHT (KG)	24	27	29	34	47	49	56	50	68	55	58	66	71	78	82	103	117	145	159	173	175	191

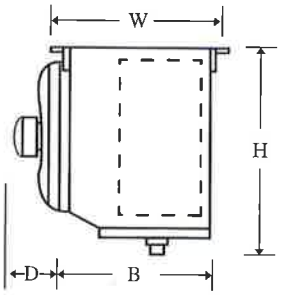
DIMENSIONAL DATA

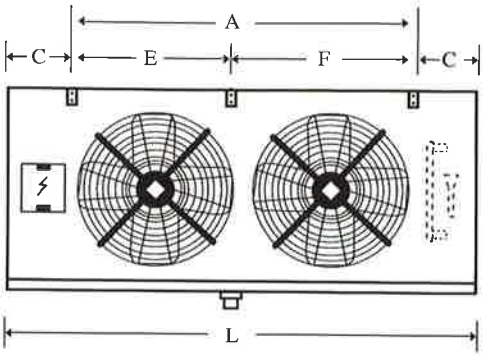


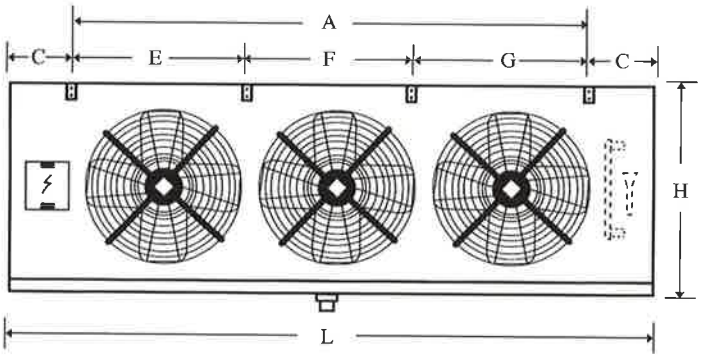


	DIMENSIONS (MM)									
MODEL	H	L	W	A	B	C	D	E	F	G
EP/NEP 050	480	714	325	438	265	138	120	-	-	-
EP/NEP 070	480	714	325	438	265	138	120	-	-	-
EP/NEP 080	480	714	353	438	293	138	120	-	-	-
EP/NEP 090	480	714	425	438	366	138	120	-	-	-
EP/NEP 120	600	1121	368	845	308	138	125	-	-	-
EP/NEP 135	480	1121	325	845	265	138	120	-	-	-
EP/NEP 148	480	1121	353	845	293	138	120	-	-	-
EP/NEP 160	600	1121	368	845	308	138	125	-	-	-
EP/NEP 178	480	1121	425	845	366	138	120	-	-	-
EP/NEP 180	600	1121	368	845	308	138	125	-	-	-
EP/NEP 200	663	1121	443	845	383	138	125	-	-	-
EP/NEP 230	663	1121	443	845	383	138	145	-	-	-
EP/NEP 250	663	1121	471	845	411	138	145	-	-	-
EP/NEP 280	663	1121	526	845	466	138	145	-	-	-
EP/NEP 300	663	1121	526	997	466	138	145	-	-	-
EP 380	600	1527	471	1251	411	138	125	642	610	-
NEP 380	663	2213	368	1937	308	138	125	953	984	-
EP/NEP 420	663	2213	368	1937	308	138	125	953	984	-
EP/NEP 500	663	2213	448	1937	388	138	125	953	984	-
EP/NEP 550	663	2213	448	1937	388	138	145	953	984	-
EP/NEP 600	663	2213	448	1937	388	138	145	953	984	-
EP/NEP 680	792	2746	425	2470	366	138	145	813	813	844
EP/NEP 750	792	2746	425	2470	366	138	145	813	813	844









	DIMENSIONS (MM)									
MODEL	H	L	W	A	B	C	D	E	F	G
RUC 078	480	714	325	438	265	138	120	-	-	-
RUC 100	480	714	325	438	265	138	120	-	-	-
RUC 120	480	714	353	438	293	138	120	-	-	-
RUC 150	480	714	425	438	366	138	120	-	-	-
RUC 200	600	1121	368	845	308	138	125	-	-	-
RUC 215	480	1121	325	845	265	138	120	-	-	-
RUC 235	480	1121	353	845	293	138	120	-	-	-
RUC 270	600	1121	368	845	308	138	125	-	-	-
RUC 280	480	1121	425	845	366	138	120	-	-	-
RUC 290	663	1121	368	845	308	138	125	-	-	-
RUC 330	663	1121	443	845	383	138	125	-	-	-
RUC 390	663	1121	443	845	383	138	145	-	-	-
RUC 420	663	1121	471	845	411	138	145	-	-	-
RUC 460	663	1121	526	845	466	138	145	-	-	-
RUC 500	663	1273	526	997	466	138	145	-	-	-
RUC 620	663	2213	368	1937	308	138	125	953	984	-
RUC 690	663	2213	368	1937	308	138	125	953	984	-
RUC 830	663	2213	448	1937	388	138	125	953	984	-
RUC 910	663	2213	448	1937	388	138	145	953	984	-
RUC 990	663	2213	448	1937	388	138	145	953	984	-
RUC 1100	792	2746	425	2470	366	138	145	813	813	844
RUC 1200	792	2746	425	2470	366	138	145	813	813	844

INSAFOAM

(ROC NO: 248468-D)
(GST Reg No. 000900694016)

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