

Chiller Cold Room

Room Temperature: +4 °C

Refrigerant:R22

| External Room Size m (ft) | External Volume m ³ (ft ³) | Cooling Load kW | India Built Recip CDU | |
|------------------------------|--|--------------------|-----------------------|-------------|
| | | | Model | Capacity kW |
| 1.8*3.0*2.4 (6*10*8) | 13.6 (480) | 2.2 | KHJ513PQE | 2.4 |
| 2.4*3.7*2.4 (8*12*8) | 21.8 (768) | 3.0 | KHR522PQE | 3.5 |
| 3.0*3.7*2.4 (10*12*8) | 27.2 (960) | 3.8 | KHR522PQE | 3.5 |
| 4.3*4.3*2.4 (14*14*8) | 44.4 (1568) | 5.1 | KHR530PQE | 4.6 |
| 4.3*4.9*2.4 (14*16*8) | 50.8 (1792) | 6.0 | KHR536PQE | 5.8 |
| 4.9*4.9*2.4 (16*16*8) | 58.0 (2048) | 7.1 | KHR542PQE | 6.6 |
| 4.9*6.1*2.4 (16*20*8) | 72.5 (2560) | 7.7 | KHR553PQE | 9.4 |
| 6.1*6.1*2.4 (20*20*8) | 90.7 (3200) | 9.1 | KHR553PQE | 9.4 |
| 6.1*7.3*2.4 (20*24*8) | 108.8 (3840) | 10.6 | KHR562PQE | 10.8 |
| 6.1*7.9*2.4 (20*26*8) | 117.8 (4160) | 11.5 | KHR572PQE | 11.7 |



Refrigerant:R404A

| External Room Size m (ft) | External Volume m ³ (ft ³) | Cooling Load kW | India Built Recip CDU | |
|------------------------------|--|--------------------|-----------------------|-------------|
| | | | Model | Capacity kW |
| 1.8*3.0*2.4 (6*10*8) | 13.6 (480) | 2.2 | KFJ461PQL | 2.1 |
| 2.4*3.7*2.4 (8*12*8) | 21.8 (768) | 3.0 | KHM511PQL | 3.7 |
| 3.0*3.7*2.4 (10*12*8) | 27.2 (960) | 3.8 | KHM511PQL | 3.7 |
| 4.3*4.3*2.4 (14*14*8) | 44.4 (1568) | 5.1 | KHM514PQL | 5.0 |
| 4.3*4.9*2.4 (14*16*8) | 50.8 (1792) | 6.0 | KHM519PQL | 6.0 |
| 4.9*4.9*2.4 (16*16*8) | 58.0 (2048) | 7.1 | KHM522PQL | 6.8 |
| 4.9*6.1*2.4 (16*20*8) | 72.5 (2560) | 7.7 | KHM511PQL * 2 | 3.7 * 2 |
| 6.1*6.1*2.4 (20*20*8) | 90.7 (3200) | 9.1 | KHM514PQL * 2 | 5.0 * 2 |
| 6.1*7.9*2.4 (20*26*8) | 117.8 (4160) | 11.5 | KHM519PQL * 2 | 6.0 * 2 |
| 6.1*9.8*2.4 (20*32*8) | 145.0 (5120) | 13.8 | KHM522PQL * 2 | 6.8 * 2 |

Refrigerant: R404A

| External Room Size m (ft) | External Volume m ³ (ft ³) | Cooling Load kW | India Built Scroll CDU | |
|------------------------------|--|--------------------|------------------------|-------------|
| | | | Model | Capacity kW |
| 2.4*3.7*2.4 (8*12*8) | 21.8 (768) | 3.0 | KHZ515PQL | 3.8 |
| 3.0*3.7*2.4 (10*12*8) | 27.2 (960) | 3.8 | KHZ515PQL | 3.8 |
| 4.3*4.3*2.4 (14*14*8) | 44.4 (1568) | 5.1 | KHZ519PQL | 4.9 |
| 4.3*4.9*2.4 (14*16*8) | 50.8 (1792) | 6.0 | KHZ521PQL | 6.2 |
| 4.9*4.9*2.4 (16*16*8) | 58.0 (2048) | 7.1 | KHZ526PQL | 7.0 |
| 4.9*6.1*2.4 (16*20*8) | 72.5 (2560) | 7.7 | KHZ529PQL | 8.2 |
| 6.1*6.1*2.4 (20*20*8) | 90.7 (3200) | 9.1 | KHZ538PQL | 10.3 |
| 6.1*7.3*2.4 (20*24*8) | 108.8 (3840) | 10.4 | KHZ538PQL | 10.3 |
| 6.1*7.9*2.4 (20*26*8) | 117.8 (4160) | 11.5 | KHZ545PQL | 12.0 |
| 6.1*9.8*2.4 (20*32*8) | 145.0 (5120) | 13.8 | KHZ548PQL | 13.6 |
| 7.3*7.3*3.6 (24*24*12) | 191.8 (6912) | 17.3 | KHZ566PQL | 17.8 |
| 7.3*8.4*3.6 (24*28*12) | 220.7 (8064) | 19.9 | KHZ576PQL | 20.7 |
| 7.3*10.4*3.6 (24*34*12) | 273.3 (9792) | 24.5 | KHZ595PAL | 24.0 |
| 10.4*12.2*3.6 (34*40*12) | 456.7 (16320) | 31.60 | KHZ611PAL | 31.90 |



Notes:

1. Design Is Based On 43°C Ambient Condition
2. 80mm PUF Panels Considered For Walls & Ceiling
3. Fresh Product Entering Temperature +30°C Is Considered
4. Product Turnover 10% of Storage Capacity Is Considered
5. Product Pull Down Time 12 Hour Is Considered
6. Safety Factor 10% Is Considered
7. Capacity Is Based On 20 Hour Compressor Run Time
8. Selection Is Based On 5K Evaporator TD To Maintain 90% RH
9. Evaporator Selection Capacity Is Equivalent To CDU Capacity

| Softy Machines | |
|----------------|-----------|
| Case | Model |
| 15 | KHM511PQL |
| 20 | KHM514PQL |
| 30 | KHM519PQL |
| 40 | KHM522PQL |



Bulk Milk Chiller

| Daily Milk Load | India Built Recip & Scroll CDUs | |
|-----------------|---------------------------------|-----------------------|
| | R22 | R404A |
| 500 Liters | KHR522MQE-BX/DX | KHZ515MQL-BX/DX |
| 1000 Liters | KHR536MQE-BX/DX | KHZ521MQL-BX/DX |
| 2000 Liters | KHR536MQE-FX/DX* 2 Nos | KHZ521MQL-FX/DX* 2Nos |
| 3000 Liters | KHR553MQE-DX* 2Nos | KHZ538MQL-DX* 2Nos |
| 4000 Liters | KHR572MAE-DX* 2Nos | KHZ545MQL-DX* 2Nos |
| 5000 Liters | --- | KHZ548MAL-DX* 2Nos |



Notes:

1. Selection Is Based On -1°C Evaporating Temp. & 38°C Ambient Condition As Per IS 5708
2. Power Supply - BX/FX: 1Ph, 50Hz & DX/EX: 3Ph, 50Hz
3. Selection Is Based On 5K Evaporator TD
4. Evaporator Selection Capacity Is Equivalent To CDU Capacity
5. Air-Cooled CDU Built Using Hermetic Reciprocating & Scroll Type Compressor.

Freezer Cold Room

Room Temperature: -20 °C

Refrigerant: R404A

| External Room Size m (ft) | External Volume m ³ (ft ³) | Cooling Load kW | KHM CDU | |
|------------------------------|--|--------------------|-------------|-------------|
| | | | Model | Capacity kW |
| 1.8*1.2*2.4 (6*4*8) | 5.2 (192) | 1.5 | KHM475LQL*2 | 1.6 |
| 2.4*3.0*2.4 (8*10*8) | 18.1 (640) | 2.7 | KHM512LQL*2 | 2.6 |
| 3.0*3.7*2.4 (10*12*8) | 27.2 (960) | 2.9 | KHM515LQL*2 | 3.2 |
| 4.3*4.9*2.4 (14*16*8) | 50.8 (1792) | 4.8 | KHM517LQL*2 | 4.8 |
| 4.3*6.1*2.4 (14*20*8) | 63.5 (2240) | 5.8 | KHM520LQL*2 | 5.3 |

Notes:

1. Design Is Based On 43°C Ambient Condition
2. 100mm PUF Panels Considered For Walls & Ceiling
3. Frozen Product Entering Temperature -15°C Is Considered
4. Product Turnover 100% Of Storage Capacity Is Considered
5. Product Pull Down Time 12 Hour Is Considered
6. Safety Factor 10% Is Considered
7. Capacity Is Based On 18 Hour Compressor Run Time
8. Selection Is Based On 5K Evaporator TD
9. Evaporator Selection Capacity Is Equivalent To CDU Capacity
10. Air-Cooled CDU Built Using Hermetic Reciprocating Type Compressor.



WATER CHILLER (15 ° C Inlet & 10° C Outlet)

| Flow Rate (Ltr/ Hr) | R22 | R404A |
|----------------------|----------------|------------|
| | Model Name | Model Name |
| 600 | KHJ513PXX | - |
| 800 | KHR522PXX /MXX | KHM511PQL |
| 1000 | KHR530PXX /MXX | KHM514PQL |
| 1400 | KHR536PXX /MXX | KHM519PQL |
| 1600 | KHR542PXX /MXX | - |
| 2000 | KHR553PXX /MXX | - |
| 2400 | KHR562PXX /MXX | - |
| 2800 | KHR572PBE /MXX | - |



Deep Freezer

| Hard Top (Ltrs) | Glass Top (Ltrs) | Model |
|-----------------|------------------|---------------------|
| 300 | 200 | KFN372LAG-BX |
| 400 | 300 | KFN396LAG-BX |
| 500 | 400 | KFN415LAG-BX |
| 800 | 600 | KFN396LAG-BX x 2Nos |
| 1000 | 800 | KFN415LAG-BX x 2Nos |



Bottle Cooler

| Capacity (Ltr) | R22 | R134a |
|----------------|--------------|-----------------------------|
| 100-120 | - | KFE419HAG-BX |
| 220-250 | - | KFE432HAG-BX |
| 260-350 | - | KFE444HAG-BX |
| 350-500 | KFE461HAE-BX | KFN463HAG-BX / KFJ467HAG-BX |
| 600-800 | KFJ511HAE-BX | KFJ498HAG-CX |



Water cooler

| Capacity (Ltr) | R22 | R134a |
|----------------|--------------|-----------------------------|
| 20 | - | KFE419HAG-BX |
| 40 | - | KFE444HAG-BX |
| 60 | KFE461HAE-BX | KFN463HAG-BX / KFJ467HAG-BX |
| 100 | KFJ511HAE-BX | KFJ498HAG-CX |



Visi Cooler

| Case | Model |
|-------------|--------------|
| 2(110 Ltr) | KFE419HAG-BX |
| 7(250 Ltr) | KFE432HAG-BX |
| 9(400 Ltr) | KFE444HAG-BX |
| 12(650 Ltr) | KFN463HAG-BX |



Based on a return gas temperature of 18.3°C. Power includes condenser fan.

Note: These are preliminary guidelines. The actual compressor selection may differ from the guidelines. Please check the system details before selecting compressor model.