**TECHNICAL SPECIFICATIONS : VAPOUR ABSORPTION CHILLER**

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| --- | --- | --- | --- |
| Client | a | Version | 1.2.0 Dt : 07-Aug-2021 |
| Enquiry | a | Date | 27-Sep-2021, 15:10 |
| Project | a | Model | TAC L5 D3 |

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| --- | --- | --- | --- |
|  | **Description** | **Unit** |  |
|  | **Capacity ( + 3 %) :** | **TR** | 169 |
|  | | | |
| **A** | **Chilled Water Circuit :** | | |
|  | Chilled water flow | m³/hr | 102 |
|  | Chilled water inlet temperature | °C | 12 |
|  | Chilled water outlet temperature | °C | 7 |
|  | Evaporate passes | No. | 1+1 |
|  | Chilled water circuit pressure loss | mLC | 2.3 |
|  | Chilled water Connection diameter | DN | 125 |
|  | Glycol type |  | NA |
|  | Chilled water glycol % | % | 0 |
|  | Chilled water fouling factor | m² hr °C/kcal | standard |
|  | Maximum working pressure | kg/cm²(g) | 8 |
|  | | | |
| **B** | **Cooling Water Circuit:** | | |
|  | Heat Rejected | kCal/hr | 1152257.5 |
|  | Cooling water flow | m³/hr | 169 |
|  | Cooling water inlet temperature | °C | 29.4 |
|  | Cooling water outlet temperature | °C | 36.3 |
|  | Absorber / Condenser passes | No. | 3,3/2,2 |
|  | Cooling water Bypass Flow | m³/hr | - |
|  | Cooling water circuit pressure loss | mLC | 7.4 |
|  | Cooling water Connection diameter | DN | 150 |
|  | Glycol type |  | NA |
|  | Cooling water glycol % | % | 0 |
|  | Cooling water fouling factor | m² hr °C/kcal | standard |
|  | Maximum working pressure | kg/cm²(g) | 8 |
|  | | | |
| **C** | **Hot Water Circuit :** | | |
|  | Heat Input | kCal/hr | 641201.5 |
|  | Hot water flow | m³/hr | 67 |
|  | Hot water inlet temperature | °C | 90 |
|  | Hot water outlet temperature | °C | 80.1 |
|  | Generator passes | No. | 3 + 3 |
|  | Hot water circuit pressure loss | mLC | 6.3 |
|  | Hot water connection diameter | DN | 100 |
|  | Glycol type |  | NA |
|  | Hot water glycol | % | 0 |
|  | Maximum working pressure | kg/cm²(g) | 8 |
|  | Hot water fouling factor | m² hr °C/kcal | standard |
|  | | | |
| **D** | **Electrical Data :** | | |
| 1. | Power supply |  | 415 V( ±10%), 50 Hz (±5%), 3 Phase+N |
| 2. | Power consumption | kVA | 10.5 |
| 3. | HP Absorber pump rating | kW (A) | 1.5 (5) |
| 4. | LP Absorber pump rating | kW (A) | 1.5 (5) |
| 5. | Refrigerant pump rating | kW (A) | 0.3 (1.4) |
| 6. | Vacuum pump rating | kW (A) | 0.75 (1.8) |
|  | | | |
| **E** | **Physical Data :** | | |
| 1. | Length | mm | 4020 |
| 2. | Width | mm | 2130 |
| 3. | Height | mm | 3060 |
| 4. | Operating weight | Tonne | 11.1 |
| 5. | Dry weight | Tonne | 8.4 |
| 6. | Shipping weight | Tonne | 10.3 |
| 7. | Flooded weight | Tonne | 17.3 |
| 8. | Tube cleaning space (any one side length-wise) | mm | 3560 |
|  | | | |
| **F** | **Tube Metallurgy :** | | |
| 1. | Evaporator |  | name |
| 2. | Absorber tube material |  | Copper |
| 3. | Condenser tube material |  | name |
| 4. | Generator tube material |  | Copper |
|  | | | |

Caption Notes:

1. This selection is valid for insulated chiller only.

2. For non-insulated chiller, the Capacity and Heat source consumption will vary.

3. Plant Room Temperature should be from +5 deg C to +45 deg C

4. Please contact Thermax representative / Office for customised specifications.