**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, 16:24 |
| Project | a | Model | TAC L1 M1 |

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| --- | --- | --- | --- |
|  | **Description** | **Unit** |  |
|  | **Capacity ( + 3 %) :** | **TR** | 26 |
|  | | | |
| **A** | **Chilled Water Circuit :** | | |
|  | Chilled water flow | GPM | 69.1 |
|  | Chilled water inlet temperature | °F | 53.6 |
|  | Chilled water outlet temperature | °F | 44.6 |
|  | Evaporate passes | No. | 2+2 |
|  | Chilled water circuit pressure loss | ftLC | 7.4 |
|  | Chilled water Connection diameter | NPS | 3.2 |
|  | Glycol type |  | NA |
|  | Chilled water glycol % | % | 0 |
|  | Chilled water fouling factor | ft² Hr °F/BTU | standard |
|  | Maximum working pressure | psi(g) | 113.8 |
|  | | | |
| **B** | **Cooling Water Circuit:** | | |
|  | Heat Rejected | MBH | 718.7 |
|  | Cooling water flow | GPM | 145.3 |
|  | Cooling water inlet temperature | °F | 84.9 |
|  | Cooling water outlet temperature | °F | 94.8 |
|  | Absorber / Condenser passes | No. | 2+2/2 |
|  | Cooling water Bypass Flow | GPM | - |
|  | Cooling water circuit pressure loss | ftLC | 15.4 |
|  | Cooling water Connection diameter | NPS | 4 |
|  | Glycol type |  | NA |
|  | Cooling water glycol % | % | 0 |
|  | Cooling water fouling factor | ft² Hr °F/BTU | standard |
|  | Maximum working pressure | psi(g) | 114 |
|  | | | |
| **C** | **Hot Water Circuit :** | | |
|  | Heat Input | MBH | 406.7 |
|  | Hot water flow | GPM | 48.4 |
|  | Hot water inlet temperature | °F | 194 |
|  | Hot water outlet temperature | °F | 176.7 |
|  | Generator passes | No. | 8 |
|  | Hot water circuit pressure loss | ftLC | 10.3 |
|  | Hot water connection diameter | NPS | 80 |
|  | Glycol type |  | NA |
|  | Hot water glycol | % | 0 |
|  | Maximum working pressure | psi(g) | 8 |
|  | Hot water fouling factor | ft² Hr °F/BTU | standard |
|  | | | |
| **D** | **Electrical Data :** | | |
| 1. | Power supply |  | 415 V( ±10%), 50 Hz (±5%), 3 Phase+N |
| 2. | Power consumption | kVA | 5.2 |
| 3. | Absorbent pump rating | kW (A) | 1.1 (3.4) |
| 4. | Refrigerant pump rating | kW (A) | 0.1 (0.6) |
| 5. | Vacuum pump rating | kW (A) | 0.75 (1.8) |
|  | | | |
| **E** | **Physical Data :** | | |
| 1. | Length | in | 111 |
| 2. | Width | in | 58 |
| 3. | Height | in | 93 |
| 4. | Operating weight | lbs | 7716.2 |
| 5. | Dry weight | lbs | 6393.4 |
| 6. | Shipping weight | lbs | 7054.8 |
| 7. | Flooded weight | lbs | 11243.6 |
| 8. | Tube cleaning space (any one side length-wise) | in | 106.3 |
|  | | | |
| **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.