**Technical Specification : Vapour Absorption Chiller**

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| **Client** | **a** | **Version** | **1.1.0 Dt : 07-Aug-2021** |
| **Enquiry** | **a** | **Date** | **07-Aug-2021, 15:22** |
| **Project** | **a** | **Model** | **TAC L5 D3** |

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|  | **Description** | **Unit** |  |
|  | **Capacity(+/-3%)** | **TR** | **140** |

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| **A** | **Chilled Water Circuit** |  |  |
| 1. | Chilled water flow | GPM | 371.9 |
| 2. | Chilled water inlet temperature | °F | 53.6 |
| 3. | Chilled water outlet temperature | °F | 44.6 |
| 4. | Evaporate passes | No | 2+2 |
| 5. | Chilled water circuit pressure loss | ftLC | 30.2 |
| 6. | Chilled water Connection diameter | NPS | 5 |
| 7. | Glycol type |  | NA |
| 8. | Chilled water glycol% | ( % ) | 0 |
| 9. | Chilled water fouling factor | ft² Hr °F/BTU | standard |
| 10. | Maximum working pressure | psi(g) | 114 |

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| **B** | **Cooling Water Circuit** |  |  |
| 1. | Heat Rejected | MBH | 3802.8 |
| 2. | Cooling water flow | GPM | 744.1 |
| 3. | Cooling water inlet temperature | °F | 84.9 |
| 4. | Cooling water outlet temperature | °F | 95.2 |
| 5. | Absorber / Condenser passes | No | 3,3/2,2 |
| 6. | Cooling water Bypass Flow | GPM | - |
| 7. | Cooling water circuit pressure loss | ftLC | 24.5 |
| 8. | Cooling water Connection diameter | NPS | 6 |
| 9. | Glycol type |  | NA |
| 10. | Cooling water glycol ( % ) | % | 0 |
| 11. | Cooling water fouling factor | ft² Hr °F/BTU | standard |
| 12. | Maximum working pressure | psi(g) | 114 |

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| **C** | **Hot Water Circuit** |  |  |
| 1. | Heat Input | MBH | 2122.8 |
| 2. | Hot water flow | GPM | 295 |
| 3. | Hot water inlet temperature | °F | 194 |
| 4. | Hot water outlet temperature | °F | 179.2 |
| 5. | Generator passes | No | 3 + 3 |
| 6. | Hot water circuit pressure loss | ftLC | 20.7 |
| 7. | Hot water connection diameter | NPS | 4 |
| 8. | Glycol type |  | NA |
| 9. | Hot water glycol | % | 0 |
| 10. | Maximum working pressure | psi(g) | 113.8 |
| 11. | Hot water fouling factor | ft² Hr °F/BTU | standard |

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| **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 ) |

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| **E** | **Physical Data** |  |  |
| 1. | Length | in | 159 |
| 2. | Width | in | 84 |
| 3. | Height | in | 121 |
| 4. | Operating weight | lbs | 24471.3 |
| 5. | Shipping weight | lbs | 22707.6 |
| 6. | Flooded weight | lbs | 38140 |
| 7. | Dry weight | lbs | 18518.8 |
| 8. | Tube cleaning space (any one side length-wise) | in | 140.2 |

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| **F** | **Tube Metallurgy** |  |  |
| 1. | Evaporator |  | name |
| 2. | Absorber tube material |  | Copper |
| 3. | Condenser tube material |  | name |
| 4. | Generator tube material |  | Copper |

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| **G** | **Low Temperature Heat exchanger Type** |  | **Standard** |

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| **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.