

**Technical Specification : Vapour Absorption Chiller**

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| **Client** | **a** | **Version** | **5.1.2.0** |
| **Enquiry** | **a** | **Date** | **02/09/2021, 12:46 PM** |
| **Project** | **a** | **Model** | **TAC S2 M1** |

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|  | **Description** | **Unit** |  |
|  | **Capacity(+/-3%)** | **TR** | **48** |

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| **A** | **Chilled Water Circuit** |  |  |
| 1. | Chilled water flow | m³/hr | 29 |
| 2. | Chilled water inlet temperature | °C | 12 |
| 3. | Chilled water outlet temperature | °C | 7 |
| 4. | Evaporate passes | No | 3+3 |
| 5. | Chilled water circuit pressure loss | mLC | 9.3 |
| 6. | Chilled water Connection diameter | DN | 80 |
| 7. | Glycol type |  | NA |
| 8. | Chilled water glycol% | ( % ) | 0 |
| 9. | Chilled water fouling factor | m² hr °C/kcal | standard |
| 10. | Maximum working pressure | kg/cm²(g) | 8 |

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| **B** | **Cooling Water Circuit** |  |  |
| 1. | Cooling water flow | m³/hr | 48 |
| 2. | Cooling water inlet temperature | °C | 32 |
| 3. | Cooling water outlet temperature | °C | 37.1 |
| 4. | Absorber / Condenser passes | No | 1+1/2 |
| 5. | Cooling water Bypass Flow | m³/hr | - |
| 6. | Cooling water circuit pressure loss | mLC | 5 |
| 7. | Cooling water Connection diameter | DN | 100 |
| 8. | Glycol type |  | NA |
| 9. | Cooling water glycol ( % ) | % | 0 |
| 10. | Cooling water fouling factor | m² hr °C/kcal | standard |
| 11. | Maximum working pressure | kg/cm²(g) | 8 |

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| **C** | **Steam Circuit** |  |  |
| 1. | Steam pressure | kg/cm²(g) | 8 |
| 2. | Steam Consumption (+/-3%) | kg/hr | 169 |
| 3. | Condensate drain temperature | °C | 80 - 100 |
| 4. | Condensate drain pressure | kg/cm²(g) | 1 |
| 5. | Connection - Inlet diameter | DN | 40 |
| 6. | Connection - Drain diameter | DN | 20 |
| 7. | Design Pressure | kg/cm²(g) | 10.5 |

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| **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 ) |

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| **E** | **Physical Data** |  |  |
| 1. | Length | mm | 2800 |
| 2. | Width | mm | 1700 |
| 3. | Height | mm | 2270 |
| 4. | Operating weight | ton | 4 |
| 5. | Shipping weight | ton | 3.8 |
| 6. | Flooded weight | ton | 5.4 |
| 7. | Dry weight | ton | 3.4 |
| 8. | Tube cleaning space (any one side length-wise) | mm | 2700 |

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| **F** | **Tube Metallurgy** |  |  |
| 1. | Evaporator tube material |  | Cu MiniFinned |
| 2. | Absorber tube material |  | Cu MiniFinned |
| 3. | Condenser tube material |  | Cu MiniFinned |

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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.