



| TECHNICAL SPECIFICATION - SCT 300H |                             |         |   |
|------------------------------------|-----------------------------|---------|---|
| SL. NO.                            | DESCRIPTION                 | UOM     | PARAMETERS                                    |
| 1                                  | TYPE OF COOLING TOWER       |         | INDUCED DRAFT, COUNTER FLOW, EVAPORATIVE TYPE |
| 2                                  | COOLING CAPACITY            | TR      | 300   |
| 3                                  | OVERALL TOWER DIMENSIONS    | mm      | 3310 W x 3160 D x 3810 H                      |
| 4                                  | AIR INLET SIZE              | mm      | 1000 H  |
| 5                                  | MATERIAL OF TOWER STRUCTURE |         | FRP & HOT DIP GALVANIZED MS                   |
| 6                                  | MATERIAL OF LOUVER          |         | FRP   |
| 7                                  | MATERIAL OF PIPING          |         | FRP & PVC                                     |
| 8                                  | MOTOR                       |         |   |
| POWER / SPEED / MAKE / QTY.        |                             |         | 12.5 HP / 570 rpm / NAVYUG / 1 NO             |
| TYPE                               |                             |         | 8 POLES, DUTY-S1, IP-55, EXTENDED SHAFT, EN-8 |
| CLASS OF INSULATION                |                             |         | F   |
| SUPPLY                             |                             |         | 415 V, 50Hz                                   |
| RATED CURRENT                      |                             | Amps    | 21 Amps                                       |
| CURRENT CONSUMED                   |                             | Amps    | 18.9 Amps                                     |
| 9                                  | FAN                         |         |   |
| TYPE                               |                             |         | AXIAL FLOW & DIRECT DRIVEN                    |
| FAN DIAMETER / QTY.                |                             |         | Ø 2200 mm / 1 NO                              |
| NUMBER OF BLADES                   |                             | NOS     | 4   |
| MATERIAL OF BLADES                 |                             |         | ALUMINIUM                                     |
| MATERIAL OF HUB                    |                             |         | CAST ALUMINIUM                                |
| TYPE OF BALANCING                  |                             |         | DYNAMIC                                       |
| 10                                 | FILLS                       |         |   |
| STRUCTURE                          |                             |         | HONEYCOMB, FILLS BLOCK                        |
| MATERIAL                           |                             |         | RIGID PVC / FILM TYPE FILLS, HT-85 °C         |
| SIZE                               |                             | mm      | 600 L x 150 W x 300 H                         |
| QUANTITY                           |                             | NOS     | 208   |
| SURFACE AREA                       |                             | m²      | 1120  |
| 11                                 | WATER DISTRIBUTION SYSTEM   |         |   |
| TYPE                               |                             |         | FIXED NOZZLE                                  |
| MATERIAL                           |                             |         | PVC, NON CLOG                                 |
| WORKING PRESSURE                   |                             | bar(G)  | 0.8 - 1                                       |
| MATERIAL OF FASTENERS              |                             |         | SS / GI                                       |
| 12                                 | WATER LOSSES & REQUIREMENT  |         |   |
| EVAPORATION LOSS (MAXIMUM)         |                             | %       | 0.59  |
| SPARY LOSS (MAXIMUM)               |                             | %       | 0.25  |
| DRIFT LOSS (MAXIMUM)               |                             | %       | 0.2   |
| BLOW DOWN LOSS (MAXIMUM)           |                             | %       | 0.46  |
| MAKE UP WATER REQUIREMENT (PEAK)   |                             | %       | 1.5   |
| 14                                 | PIPE FITTINGS               |         |   |
| WATER INLET                        |                             |         | ANSI - 8" NB, IS2062                          |
| WATER OUTLET                       |                             |         | AS PER CUSTOMER SCOPE                         |
| 15                                 | BASIN CAPACITY              | litres  | AS PER CUSTOMER REQUIREMENT                   |
| 16                                 | SHIPPING WEIGHT             | kg/CELL | 1270 - APPROXIMATE                            |
| 17                                 | OPERATING WEIGHT            | kg/CELL | 2400 - APPROXIMATE                            |