

DAFTAR PUSTAKA

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LAMPIRAN

1.Data 26 Mei 2018

| No | Waktu | Refrigeran | | | | | | | | Udara | | I fan (A) |
|----|-------|------------|---------|----------|---------|----------|---------|----------|---------|---------|----------|-----------|
| | | P1 (Bar) | T1 (°C) | P2 (Bar) | T2 (°C) | P3 (Bar) | T3 (°C) | P4 (Bar) | T4 (°C) | Tin(°C) | Tout(°C) | |
| 1 | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.15 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.20 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 08.25 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| | 08.30 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.35 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.40 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 34 | 0.36 |
| | 08.45 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 23 | 35 | 0.36 |
| | 08.50 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| | 08.55 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 34 | 0.36 |
| | 09.00 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 09.05 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 09.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 23 | 35 | 0.36 |
| | 09.15 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 23 | 35 | 0.36 |
| | 09.20 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| 2 | 09.25 | 3.8 | 5 | 24 | 77 | 24 | 37 | 4.1 | -12 | 15 | 36 | 0.26 |
| | 09.30 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0.26 |
| | 09.35 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0.26 |

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| | 5 | | | | | | | | | | | |
| | 09.4 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0.26 |
| | 09.4 5 | 2.8 | 0 | 18.5 | 68 | 18.5 | 36 | 3 | -21 | 15 | 36 | 0.26 |
| | 09.5 0 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 15 | 36 | 0.26 |
| | 09.5 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 14 | 36 | 0.26 |
| | 10.0 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 14 | 36 | 0.26 |
| | 10.0 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 14 | 36 | 0.26 |
| | 10.1 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 14 | 36 | 0.26 |
| | 10.1 5 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 15 | 36 | 0.26 |
| | 10.2 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 14 | 37 | 0.26 |
| | 10.2 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0.26 |
| | 10.3 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 13 | 37 | 0.26 |
| | 10.3 5 | 2.8 | 0 | 18.5 | 68 | 18.5 | 36 | 3 | -21 | 13 | 37 | 0.26 |
| 3 | 10.4 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8.5 | 40 | 0.22 |
| | 10.4 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 9 | 40 | 0.22 |
| | 10.5 0 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0.22 |
| | 10.5 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0.22 |
| | 11.0 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0.22 |
| | 11.0 5 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0.22 |
| | 11.1 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 8 | 40 | 0.22 |
| | 11.1 5 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0.22 |
| | 11.2 0 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 7 | 40 | 0.22 |
| | 11.2 5 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 7 | 40 | 0.22 |

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|--|-----------|-----|---|------|----|------|----|-----|-----|---|----|------|
| | 11.3 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0.22 |
| | 11.3 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 8 | 40 | 0.22 |
| | 11.4 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0.22 |
| | 11.4 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0.22 |
| | 11.5 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 8 | 40 | 0.22 |

2. Data 31 Mei 2018

| No | Waktu | Refrigeran | | | | | | | | Udara | | I fan (A) |
|----|-------|------------|---------|----------|---------|----------|---------|----------|---------|---------|----------|-----------|
| | | P1 (Bar) | T1 (°C) | P2 (Bar) | T2 (°C) | P3 (Bar) | T3 (°C) | P4 (Bar) | T4 (°C) | Tin(°C) | Tout(°C) | |
| 1 | 08.20 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.35 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.25 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.35 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.20 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 08.45 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.35 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.35 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 09.15 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 09.20 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| 2 | 09.25 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0.26 |
| | 09.30 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0.26 |
| | 09.35 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0.26 |
| | 09.40 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0.26 |
| | 09.45 | 2.8 | 0 | 18.5 | 68 | 18.5 | 36 | 3 | -21 | 15 | 36 | 0.26 |

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|---|-----------|-----|---|------|----|------|----|-----|-----|----|----|----------|
| | 09.5 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 09.5 5 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.0 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.0 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 10.1 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 10.1 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 10.2 0 | 3.8 | 5 | 24 | 77 | 24 | 37 | 4.1 | -12 | 15 | 36 | 0. 26 |
| | 10.2 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 10.3 0 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 10.3 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| 3 | 10.4 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 10.4 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 10.5 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 10.5 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.0 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.0 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.1 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.1 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.2 0 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |
| | 11.2 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.3 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.3 5 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |

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|--|-----------|-----|---|------|----|------|----|-----|-----|---|----|----------|
| | 11.4 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.4 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.5 0 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |

3. Data 6 Juni 2018

| No | Waktu | Refrigeran | | | | | | | | Udara | | I fan (A) |
|----|-----------|------------|---------|----------|---------|----------|---------|----------|---------|---------|----------|-----------|
| | | P1 (Bar) | T1 (°C) | P2 (Bar) | T2 (°C) | P3 (Bar) | T3 (°C) | P4 (Bar) | T4 (°C) | Tin(°C) | Tout(°C) | |
| 1 | 08.1 0 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0. 36 |
| | 08.1 5 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| | 08.2 0 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| | 08.2 5 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0. 36 |
| | 08.3 0 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0. 36 |
| | 08.3 5 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| | 08.4 0 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| | 08.4 5 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0. 36 |
| | 08.5 0 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| | 08.5 5 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| | 09.0 0 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0. 36 |
| | 09.0 5 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0. 36 |
| | 09.1 0 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0. 36 |
| | 09.1 5 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0. 36 |
| | 09.2 0 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0. 36 |
| 2 | 09.2 5 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 09.3 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. |

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|---|-----------|-----|---|------|----|------|----|-----|-----|----|----|----------|
| | 0 | | | | | | | | | | | 26 |
| | 09.3 5 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 09.4 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 09.4 5 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 09.5 0 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 09.5 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 10.0 0 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 10.0 5 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.1 0 | 2.8 | 0 | 18.5 | 68 | 18.5 | 36 | 3 | -21 | 15 | 36 | 0. 26 |
| | 10.1 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 10.2 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.2 5 | 3.8 | 5 | 24 | 77 | 24 | 37 | 4.1 | -12 | 15 | 36 | 0. 26 |
| | 10.3 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.3 5 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| 3 | 10.4 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 10.4 5 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 10.5 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 10.5 5 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.0 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.0 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.1 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.1 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.2 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |

| | | | | | | | | | | | | |
|--|-------|-----|---|------|----|------|----|-----|-----|---|----|------|
| | 11.25 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0.22 |
| | 11.30 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0.22 |
| | 11.35 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0.22 |
| | 11.40 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0.22 |
| | 11.45 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0.22 |
| | 11.50 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0.22 |

4. Data 8 Juni 2018

| No | Waktu | Refrigeran | | | | | | | | Udara | | I Fan (A) |
|----|-------|------------|---------|----------|---------|----------|---------|----------|---------|---------|----------|-----------|
| | | P1 (Bar) | T1 (°C) | P2 (Bar) | T2 (°C) | P3 (Bar) | T3 (°C) | P4 (Bar) | T4 (°C) | Tin(°C) | Tout(°C) | |
| 1 | 08.10 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.15 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| | 08.20 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.25 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| | 08.30 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.35 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.40 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.45 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.50 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.55 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 09.00 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 09.05 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 09.10 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 09.1 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. |

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|---|-----------|-----|----|------|----|------|----|-----|-----|----|----|----------|
| | 5 | | | | | | | | | | | 36 |
| | 09.2 0 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0. 36 |
| 2 | 09.2 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 09.3 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 09.3 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 09.4 0 | 2.8 | 0 | 18.5 | 68 | 18.5 | 36 | 3 | -21 | 15 | 36 | 0. 26 |
| | 09.4 5 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 09.5 0 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 09.5 5 | 3.8 | 5 | 24 | 77 | 24 | 37 | 4.1 | -12 | 15 | 36 | 0. 26 |
| | 10.0 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.0 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 10.1 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.1 5 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 10.2 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 10.2 5 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 10.3 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 10.3 5 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| 3 | 10.4 0 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |
| | 10.4 5 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |
| | 10.5 0 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 10.5 5 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.0 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.0 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |

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|--|-----------|-----|---|------|----|------|----|-----|-----|---|----|----------|
| | 11.1 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.1 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.2 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.2 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.3 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 11.3 5 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |
| | 11.4 0 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.4 5 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |
| | 11.5 0 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |

5. Data 22 Juni 2018

| No | Waktu | Refrigeran | | | | | | | | Udara | | I fan (A) |
|----|-------|------------|---------|----------|---------|----------|---------|----------|---------|---------|----------|-----------|
| | | P1 (Bar) | T1 (°C) | P2 (Bar) | T2 (°C) | P3 (Bar) | T3 (°C) | P4 (Bar) | T4 (°C) | Tin(°C) | Tout(°C) | |
| 1 | 08.10 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.15 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.20 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.25 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.30 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.35 | 2.8 | -1 | 19 | 60 | 18.6 | 31 | 3.1 | -20 | 22 | 35 | 0.36 |
| | 08.40 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 08.45 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 08.50 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 08.55 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| | 09.00 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 09.05 | 2.6 | -2 | 18.5 | 58 | 18 | 31 | 2.9 | -21 | 23 | 35 | 0.36 |
| | 09.10 | 2.5 | -3 | 18 | 58 | 17.7 | 31 | 2.8 | -22 | 22 | 35 | 0.36 |
| | 09.15 | 2.7 | -2 | 18.8 | 59 | 18.4 | 31 | 3 | -21 | 22 | 35 | 0.36 |
| | 09.20 | 2.4 | -4 | 16.5 | 55 | 15 | 32 | 2.6 | -24 | 22 | 35 | 0.36 |
| 2 | 09.25 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0.26 |
| | 09.30 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0.26 |
| | 09.35 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0.26 |
| | 09.40 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0.26 |
| | 09.45 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0.26 |

| | | | | | | | | | | | | |
|---|-----------|-----|---|------|----|------|----|-----|-----|----|----|----------|
| | 09.5 0 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 09.5 5 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.0 0 | 3.2 | 2 | 21 | 71 | 21.5 | 36 | 3.7 | -15 | 14 | 37 | 0. 26 |
| | 10.0 5 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.1 0 | 3.5 | 3 | 23 | 75 | 23 | 36 | 3.9 | -13 | 16 | 36 | 0. 26 |
| | 10.1 5 | 3.8 | 5 | 24 | 77 | 24 | 37 | 4.1 | -12 | 15 | 36 | 0. 26 |
| | 10.2 0 | 3.3 | 2 | 22 | 72 | 22 | 36 | 3.8 | -14 | 16 | 36 | 0. 26 |
| | 10.2 5 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 10.3 0 | 3.0 | 1 | 19 | 71 | 19 | 36 | 3.4 | -18 | 15 | 35 | 0. 26 |
| | 10.3 5 | 2.8 | 0 | 18.5 | 68 | 18.5 | 36 | 3 | -21 | 15 | 36 | 0. 26 |
| 3 | 10.4 0 | 4.4 | 5 | 28.1 | 80 | 28.1 | 43 | 4.4 | -10 | 8 | 40 | 0. 22 |
| | 10.4 5 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |

| | | | | | | | | | | | | |
|--|-----------|-----|---|------|----|------|----|-----|-----|---|----|----------|
| | 10.5 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 10.5 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.0 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.0 5 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.1 0 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |
| | 11.1 5 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.2 0 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.2 5 | 4.2 | 4 | 27.5 | 79 | 27.3 | 42 | 4.3 | -10 | 8 | 40 | 0. 22 |
| | 11.3 0 | 4 | 4 | 26 | 76 | 25.9 | 42 | 4 | -13 | 9 | 40 | 0. 22 |
| | 11.3 5 | 4.5 | 6 | 28.5 | 80 | 28.5 | 43 | 4.5 | -9 | 9 | 40 | 0. 22 |

| | | | | | | | | | | | | |
|--|-----------|-----|---|----|----|----|----|-----|----|---|----|----------|
| | 11.4 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.4 5 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |
| | 11.5 0 | 4.7 | 7 | 29 | 81 | 29 | 43 | 4.7 | -8 | 8 | 40 | 0. 22 |