

# R290 Climastar Series

## NE-F1000HCR5TINV-M-USC

| TWout | DB  | Maximum |       |       | 100%( Normal) |       |       | 75%    |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|-------|-----|---------|-------|-------|---------------|-------|-------|--------|-------|-------|-------|-------|------|-------|-------|------|---------|-------|------|
|       |     | HC      | COP   | PI    | HC            | COP   | PI    | HC     | COP   | PI    | HC    | COP   | PI   | HC    | COP   | PI   | HC      | COP   | PI   |
| 20    | -25 | 46.26   | 2.22  | 20.86 | 46.26         | 2.22  | 20.86 | 34.79  | 2.55  | 13.66 | 22.90 | 2.65  | 8.64 | 18.50 | 2.72  | 6.80 | 18.50   | 2.72  | 6.80 |
|       | -20 | 53.88   | 2.65  | 20.34 | 53.88         | 2.65  | 20.34 | 40.52  | 3.04  | 13.31 | 26.67 | 3.25  | 8.20 | 21.55 | 3.30  | 6.54 | 21.55   | 3.30  | 6.54 |
|       | -15 | 61.54   | 3.06  | 20.10 | 61.54         | 3.06  | 20.10 | 46.28  | 3.52  | 13.16 | 30.46 | 3.81  | 7.99 | 24.62 | 3.91  | 6.30 | 24.62   | 3.91  | 6.30 |
|       | -10 | 67.72   | 3.56  | 19.02 | 67.72         | 3.56  | 19.02 | 50.93  | 4.12  | 12.36 | 33.52 | 4.64  | 7.23 | 29.08 | 4.85  | 6.00 | 29.08   | 4.85  | 6.00 |
|       | -7  | 68.85   | 3.70  | 18.62 | 68.85         | 3.95  | 17.42 | 51.78  | 4.32  | 11.97 | 34.08 | 4.69  | 7.27 | 30.50 | 5.17  | 5.90 | 30.50   | 5.17  | 5.90 |
|       | 0   | 73.79   | 4.04  | 18.28 | 70.28         | 4.90  | 14.34 | 52.85  | 5.36  | 9.86  | 34.79 | 5.82  | 5.98 | 32.99 | 6.07  | 5.43 | 32.99   | 6.07  | 5.43 |
|       | 2   | 82.92   | 4.63  | 17.92 | 72.11         | 5.65  | 12.76 | 54.23  | 6.18  | 8.77  | 35.69 | 6.70  | 5.32 | 35.69 | 6.70  | 5.32 | 35.69   | 6.70  | 5.32 |
|       | 5   | 87.33   | 4.92  | 17.74 | 75.94         | 6.18  | 12.29 | 57.10  | 6.76  | 8.45  | 37.59 | 7.33  | 5.13 | 37.59 | 7.33  | 5.13 | 37.59   | 7.33  | 5.13 |
|       | 7   | 91.73   | 5.25  | 17.48 | 79.76         | 6.59  | 12.10 | 59.98  | 7.21  | 8.32  | 39.48 | 7.82  | 5.05 | 39.48 | 7.82  | 5.05 | 39.48   | 7.82  | 5.05 |
|       | 10  | 100.31  | 5.86  | 17.12 | 83.59         | 7.24  | 11.55 | 62.86  | 7.92  | 7.94  | 41.38 | 8.59  | 4.82 | 41.38 | 8.59  | 4.82 | 41.38   | 8.59  | 4.82 |
|       | 15  | 104.88  | 6.19  | 16.94 | 87.40         | 7.77  | 11.25 | 65.72  | 8.50  | 7.73  | 43.26 | 9.22  | 4.69 | 43.26 | 9.22  | 4.69 | 43.26   | 9.22  | 4.69 |
|       | 20  | 114.12  | 6.85  | 16.66 | 95.10         | 8.75  | 10.87 | 71.52  | 9.57  | 7.47  | 47.07 | 10.38 | 4.53 | 47.07 | 10.38 | 4.53 | 47.07   | 10.38 | 4.53 |
|       | 25  | 123.36  | 7.60  | 16.24 | 102.80        | 9.73  | 10.57 | 77.31  | 10.65 | 7.26  | 50.89 | 11.45 | 4.44 | 50.89 | 11.45 | 4.44 | 50.89   | 11.45 | 4.44 |
|       | 30  | 138.10  | 8.71  | 15.86 | 110.48        | 10.70 | 10.33 | 83.08  | 11.71 | 7.10  | 54.69 | 12.76 | 4.28 | 54.69 | 12.76 | 4.28 | 54.69   | 12.76 | 4.28 |
|       | 35  | 147.73  | 9.67  | 15.28 | 118.18        | 11.68 | 10.12 | 88.87  | 12.78 | 6.95  | 58.50 | 13.93 | 4.20 | 58.50 | 13.93 | 4.20 | 58.50   | 13.93 | 4.20 |
|       | 40  | 163.64  | 11.13 | 14.70 | 125.88        | 12.66 | 9.94  | 94.66  | 13.85 | 6.83  | 62.31 | 15.10 | 4.13 | 62.31 | 15.10 | 4.13 | 62.31   | 15.10 | 4.13 |
|       | 45  | 173.65  | 12.32 | 14.10 | 133.58        | 13.64 | 9.79  | 100.45 | 14.92 | 6.73  | 66.12 | 16.27 | 4.06 | 66.12 | 16.27 | 4.06 | 66.12   | 16.27 | 4.06 |
| TWout | DB  | Maximum |       |       | 100%( Normal) |       |       | 75%    |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |     | HC      | COP   | PI    | HC            | COP   | PI    | HC     | COP   | PI    | HC    | COP   | PI   | HC    | COP   | PI   | HC      | COP   | PI   |
| 25    | -25 | 45.48   | 2.17  | 21.00 | 45.48         | 2.17  | 21.00 | 34.20  | 2.49  | 13.75 | 22.51 | 2.52  | 8.94 | 20.10 | 2.88  | 6.98 | 20.10   | 2.88  | 6.98 |
|       | -20 | 52.86   | 2.53  | 20.88 | 52.86         | 2.53  | 20.88 | 39.75  | 2.91  | 13.67 | 26.17 | 3.15  | 8.29 | 23.14 | 3.45  | 6.70 | 23.14   | 3.45  | 6.70 |
|       | -15 | 60.27   | 2.95  | 20.44 | 60.27         | 2.95  | 20.44 | 45.32  | 3.39  | 13.38 | 29.83 | 3.67  | 8.12 | 24.11 | 3.69  | 6.54 | 24.11   | 3.69  | 6.54 |
|       | -10 | 63.14   | 3.15  | 20.04 | 63.14         | 3.15  | 20.04 | 47.48  | 3.60  | 13.18 | 31.25 | 3.92  | 7.98 | 25.26 | 3.97  | 6.36 | 25.26   | 3.97  | 6.36 |
|       | -7  | 67.64   | 3.69  | 18.32 | 67.64         | 3.69  | 18.32 | 50.87  | 4.04  | 12.59 | 33.48 | 4.38  | 7.64 | 29.96 | 4.83  | 6.20 | 29.96   | 4.83  | 6.20 |
|       | 0   | 69.70   | 4.56  | 15.29 | 69.70         | 4.56  | 15.29 | 52.41  | 4.99  | 10.51 | 34.50 | 5.41  | 6.38 | 32.72 | 5.65  | 5.79 | 32.72   | 5.65  | 5.79 |
|       | 2   | 70.32   | 5.13  | 13.71 | 70.32         | 5.13  | 13.71 | 52.88  | 5.61  | 9.42  | 34.81 | 6.09  | 5.72 | 34.81 | 6.09  | 5.72 | 34.81   | 6.09  | 5.72 |
|       | 5   | 74.24   | 5.62  | 13.22 | 74.24         | 5.62  | 13.22 | 55.83  | 6.14  | 9.09  | 36.75 | 6.66  | 5.52 | 36.75 | 6.66  | 5.52 | 36.75   | 6.66  | 5.52 |
|       | 7   | 78.17   | 5.98  | 13.07 | 78.17         | 5.98  | 13.07 | 58.78  | 6.54  | 8.98  | 38.69 | 7.10  | 5.45 | 38.69 | 7.10  | 5.45 | 38.69   | 7.10  | 5.45 |
|       | 10  | 82.09   | 6.59  | 12.47 | 82.09         | 6.59  | 12.47 | 61.73  | 7.20  | 8.57  | 40.64 | 7.81  | 5.20 | 40.64 | 7.81  | 5.20 | 40.64   | 7.81  | 5.20 |
|       | 15  | 86.01   | 7.08  | 12.16 | 86.01         | 7.08  | 12.16 | 64.68  | 7.74  | 8.36  | 42.57 | 8.39  | 5.07 | 42.57 | 8.39  | 5.07 | 42.57   | 8.39  | 5.07 |
|       | 20  | 93.27   | 7.91  | 11.80 | 93.27         | 7.91  | 11.80 | 70.14  | 8.65  | 8.11  | 46.17 | 9.38  | 4.92 | 46.17 | 9.38  | 4.92 | 46.17   | 9.38  | 4.92 |
|       | 25  | 100.53  | 8.74  | 11.51 | 100.53        | 8.74  | 11.51 | 75.60  | 9.56  | 7.91  | 49.76 | 10.28 | 4.84 | 49.76 | 10.28 | 4.84 | 49.76   | 10.28 | 4.84 |
|       | 30  | 107.78  | 9.56  | 11.27 | 107.78        | 9.56  | 11.27 | 81.05  | 10.46 | 7.75  | 53.35 | 11.40 | 4.68 | 53.35 | 11.40 | 4.68 | 53.35   | 11.40 | 4.68 |
|       | 35  | 115.04  | 10.39 | 11.07 | 115.04        | 10.39 | 11.07 | 86.51  | 11.37 | 7.61  | 56.94 | 12.40 | 4.59 | 56.94 | 12.40 | 4.59 | 56.94   | 12.40 | 4.59 |
|       | 40  | 122.30  | 11.22 | 10.90 | 122.30        | 11.22 | 10.90 | 91.97  | 12.28 | 7.49  | 60.54 | 13.39 | 4.52 | 60.54 | 13.39 | 4.52 | 60.54   | 13.39 | 4.52 |
|       | 45  | 129.56  | 12.05 | 10.75 | 129.56        | 12.05 | 10.75 | 97.43  | 13.18 | 7.39  | 64.13 | 14.38 | 4.46 | 64.13 | 14.38 | 4.46 | 64.13   | 14.38 | 4.46 |
| TWout | DB  | Maximum |       |       | 100%( Normal) |       |       | 75%    |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |     | HC      | COP   | PI    | HC            | COP   | PI    | HC     | COP   | PI    | HC    | COP   | PI   | HC    | COP   | PI   | HC      | COP   | PI   |
| 30    | -25 | 44.70   | 1.98  | 22.54 | 44.70         | 1.98  | 22.54 | 33.61  | 2.28  | 14.75 | 22.13 | 2.45  | 9.04 | 19.46 | 2.55  | 7.64 | 19.46   | 2.55  | 7.64 |
|       | -20 | 51.84   | 2.32  | 22.38 | 51.84         | 2.32  | 22.38 | 38.98  | 2.66  | 14.65 | 25.66 | 2.89  | 8.89 | 21.48 | 2.91  | 7.38 | 21.48   | 2.91  | 7.38 |
|       | -15 | 59.00   | 2.65  | 22.30 | 59.00         | 2.65  | 22.30 | 44.37  | 3.04  | 14.59 | 29.21 | 3.30  | 8.86 | 25.60 | 3.51  | 7.30 | 25.60   | 3.51  | 7.30 |
|       | -10 | 64.56   | 2.96  | 21.84 | 64.56         | 2.96  | 21.84 | 48.55  | 3.40  | 14.30 | 31.96 | 3.74  | 8.54 | 26.84 | 3.83  | 7.00 | 26.84   | 3.83  | 7.00 |
|       | -7  | 67.12   | 3.38  | 19.88 | 67.12         | 3.38  | 19.88 | 50.47  | 3.69  | 13.66 | 33.22 | 4.01  | 8.29 | 29.73 | 4.30  | 6.91 | 29.73   | 4.30  | 6.91 |
|       | 0   | 78.52   | 3.97  | 19.76 | 68.28         | 4.15  | 16.47 | 51.35  | 4.54  | 11.32 | 33.80 | 4.92  | 6.87 | 32.05 | 5.14  | 6.24 | 32.05   | 5.14  | 6.24 |
|       | 2   | 85.66   | 4.43  | 19.32 | 68.52         | 4.61  | 14.86 | 51.53  | 5.04  | 10.22 | 33.92 | 5.47  | 6.20 | 33.92 | 5.47  | 6.20 | 33.92   | 5.47  | 6.20 |
|       | 5   | 90.69   | 4.75  | 19.10 | 72.55         | 5.05  | 14.37 | 54.56  | 5.53  | 9.87  | 35.91 | 5.99  | 5.99 | 35.91 | 5.99  | 5.99 | 35.91   | 5.99  | 5.99 |
|       | 7   | 102.15  | 5.42  | 18.84 | 76.57         | 5.49  | 13.95 | 57.58  | 6.01  | 9.59  | 37.90 | 6.51  | 5.82 | 37.90 | 6.51  | 5.82 | 37.90   | 6.51  | 5.82 |
|       | 10  | 107.19  | 5.72  | 18.76 | 80.60         | 5.93  | 13.59 | 60.61  | 6.49  | 9.34  | 39.90 | 7.04  | 5.67 | 39.90 | 7.04  | 5.67 | 39.90   | 7.04  | 5.67 |
|       | 15  | 112.54  | 6.05  | 18.60 | 84.62         | 6.38  | 13.26 | 63.63  | 6.98  | 9.12  | 41.89 | 7.57  | 5.53 | 41.89 | 7.57  | 5.53 | 41.89   | 7.57  | 5.53 |
|       | 20  | 121.62  | 6.58  | 18.48 | 91.44         | 7.06  | 12.95 | 68.76  | 7.72  | 8.90  | 45.26 | 8.38  | 5.40 | 45.26 | 8.38  | 5.40 | 45.26   | 8.38  | 5.40 |
|       | 25  | 130.69  | 7.16  | 18.26 | 98.26         | 7.74  | 12.70 | 73.89  | 8.47  | 8.73  | 48.64 | 9.11  | 5.34 | 48.64 | 9.11  | 5.34 | 48.64   | 9.11  | 5.34 |
|       | 30  | 141.86  | 7.84  | 18.10 | 105.08        | 8.42  | 12.48 | 79.02  | 9.21  | 8.58  | 52.01 | 10.04 | 5.18 | 52.01 | 10.04 | 5.18 | 52.01   | 10.04 | 5.18 |
|       | 35  | 151.07  | 8.47  | 17.83 | 111.90        | 9.10  | 12.30 | 84.15  | 9.96  | 8.45  | 55.39 | 10.86 | 5.10 | 55.39 | 10.86 | 5.10 | 55.39   | 10.86 | 5.10 |
|       | 40  | 160.27  | 9.11  | 17.60 | 118.72        | 9.78  | 12.14 | 89.28  | 10.70 | 8.34  | 58.77 | 11.67 | 5.04 | 58.77 | 11.67 | 5.04 | 58.77   | 11.67 | 5.04 |
|       | 45  | 169.48  | 9.74  | 17.40 | 125.54        | 10.46 | 12.00 | 94.41  | 11.44 | 8.25  | 62.14 | 12.48 | 4.98 | 62.14 | 12.48 | 4.98 | 62.14   | 12.48 | 4.98 |
| TWout | DB  | Maximum |       |       | 100%( Normal) |       |       | 75%    |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |     | HC      | COP   | PI    | HC            | COP   | PI    | HC     | COP   | PI    | HC    | COP   | PI   | HC    | COP   | PI   | HC      | COP   | PI   |
| 35    | -25 | 43.92   | 1.81  | 24.24 | 43.92         | 1.81  | 24.24 | 33.03  | 1.97  | 16.80 | 21.74 | 2.27  | 9.58 | 19.46 | 2.31  | 8.44 | 19.46   | 2.31  | 8.44 |
|       | -20 | 50.82   | 2.12  | 23.92 | 50.82         | 2.12  | 23.92 | 38.22  | 2.31  | 16.52 | 25.16 | 2.65  | 9.50 | 23.00 | 2.74  | 8.40 | 23.00   | 2.74  | 8.40 |
|       | -15 | 57.73   | 2.43  | 23.76 | 57.73         | 2.43  | 23.76 | 43.41  | 2.66  | 16.30 | 28.58 | 3.03  | 9.44 | 25.50 | 3.07  | 8.30 | 25.50   | 3.07  | 8.30 |
|       | -10 | 64.43   | 2.79  | 23.12 | 64.43         | 2.79  | 23.12 | 48.16  | 2.98  | 16.14 | 31.10 | 3.38  | 9.20 | 28.24 | 3.44  | 8.20 | 28.24   | 3.44  | 8.20 |
|       | -7  | 65.42   | 2.89  | 22.66 | 65.42         | 3.02  | 21    |        |       |       |       |       |      |       |       |      |         |       |      |

# R290 Climastar Series



| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       |       |       | 25%  |       | Minimum |      |  |
|-------|-----|---------|------|-------|---------------|------|-------|-------|------|-------|-------|------|-------|-------|-------|------|-------|---------|------|--|
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP   | PI   | HC    | COP     | PI   |  |
| 40    | -25 | 43.14   | 1.74 | 24.78 | 43.14         | 1.74 | 24.78 | 32.44 | 1.88 | 17.22 | 21.35 | 2.28 | 9.38  | 18.66 | 2.39  | 7.80 | 18.66 | 2.39    | 7.80 |  |
|       | -20 | 49.80   | 2.03 | 24.54 | 49.80         | 2.03 | 24.54 | 37.45 | 2.20 | 17.06 | 24.65 | 2.70 | 9.14  | 21.92 | 2.82  | 7.76 | 21.92 | 2.82    | 7.76 |  |
|       | -15 | 56.46   | 2.31 | 24.40 | 56.46         | 2.31 | 24.40 | 42.46 | 2.52 | 16.88 | 27.95 | 3.12 | 8.96  | 24.58 | 3.19  | 7.70 | 24.58 | 3.19    | 7.70 |  |
|       | -10 | 63.44   | 2.62 | 24.24 | 63.44         | 2.62 | 24.24 | 47.71 | 2.86 | 16.66 | 31.40 | 3.60 | 8.72  | 27.38 | 3.68  | 7.44 | 27.38 | 3.68    | 7.44 |  |
|       | -7  | 63.88   | 2.66 | 23.98 | 63.88         | 2.66 | 23.98 | 48.04 | 2.91 | 16.48 | 31.62 | 3.84 | 8.24  | 28.30 | 3.88  | 7.30 | 28.30 | 3.88    | 7.30 |  |
|       | 0   | 80.63   | 3.40 | 23.72 | 64.50         | 3.45 | 18.70 | 48.50 | 3.77 | 12.85 | 31.93 | 4.05 | 7.88  | 30.28 | 4.21  | 7.20 | 30.28 | 4.21    | 7.20 |  |
|       | 2   | 84.42   | 3.60 | 23.48 | 64.94         | 3.66 | 17.72 | 48.83 | 4.01 | 12.18 | 32.15 | 4.35 | 7.39  | 32.15 | 4.40  | 7.30 | 32.15 | 4.40    | 7.30 |  |
|       | 5   | 89.91   | 3.85 | 23.34 | 69.16         | 3.92 | 17.64 | 52.01 | 4.29 | 12.13 | 34.23 | 4.65 | 7.36  | 34.23 | 4.65  | 7.36 | 34.23 | 4.65    | 7.36 |  |
|       | 7   | 100.44  | 4.35 | 23.10 | 73.38         | 4.36 | 16.84 | 55.18 | 4.77 | 11.57 | 36.32 | 5.07 | 7.16  | 36.32 | 5.07  | 7.17 | 36.32 | 5.07    | 7.17 |  |
|       | 10  | 105.92  | 4.61 | 22.96 | 77.60         | 4.62 | 16.80 | 58.36 | 5.05 | 11.54 | 38.41 | 5.48 | 7.01  | 38.41 | 5.48  | 7.01 | 38.41 | 5.48    | 7.01 |  |
|       | 15  | 111.71  | 4.91 | 22.74 | 81.84         | 4.99 | 16.40 | 61.54 | 5.46 | 11.27 | 40.51 | 5.92 | 6.84  | 40.51 | 5.92  | 6.84 | 40.51 | 5.92    | 6.84 |  |
|       | 20  | 119.82  | 5.31 | 22.58 | 87.78         | 5.37 | 16.35 | 66.01 | 5.88 | 11.24 | 43.45 | 6.37 | 6.82  | 43.45 | 6.37  | 6.82 | 43.45 | 6.37    | 6.82 |  |
|       | 25  | 127.93  | 5.73 | 22.34 | 93.72         | 5.75 | 16.30 | 70.48 | 6.29 | 11.20 | 46.39 | 6.77 | 6.85  | 46.39 | 6.77  | 6.85 | 46.39 | 6.77    | 6.85 |  |
|       | 30  | 138.06  | 6.25 | 22.08 | 99.68         | 6.31 | 15.80 | 74.96 | 6.90 | 10.86 | 49.34 | 7.32 | 6.74  | 49.34 | 7.32  | 6.74 | 49.34 | 7.32    | 6.74 |  |
|       | 35  | 146.28  | 6.68 | 21.90 | 105.62        | 6.83 | 15.46 | 79.43 | 7.47 | 10.63 | 52.28 | 7.78 | 6.72  | 52.28 | 7.78  | 6.72 | 52.28 | 7.78    | 6.72 |  |
|       | 40  | 154.51  | 7.13 | 21.66 | 111.56        | 7.31 | 15.26 | 83.89 | 8.00 | 10.49 | 55.22 | 8.23 | 6.71  | 55.22 | 8.23  | 6.71 | 55.22 | 8.23    | 6.71 |  |
|       | 45  | 162.74  | 7.79 | 20.90 | 117.50        | 7.83 | 15.00 | 88.36 | 8.57 | 10.31 | 58.16 | 8.68 | 6.70  | 58.16 | 8.68  | 6.70 | 58.16 | 8.68    | 6.70 |  |
| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       |       |       | 25%  |       | Minimum |      |  |
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP   | PI   | HC    | COP     | PI   |  |
| 45    | -25 | 42.10   | 1.50 | 27.98 | 42.10         | 1.50 | 27.98 | 31.66 | 1.93 | 16.40 | 20.84 | 2.09 | 9.96  | 16.84 | 2.31  | 7.30 | 16.84 | 2.31    | 7.30 |  |
|       | -20 | 47.96   | 1.74 | 27.60 | 47.96         | 1.74 | 27.60 | 36.07 | 2.22 | 16.24 | 23.74 | 2.59 | 9.16  | 19.18 | 2.80  | 6.86 | 19.18 | 2.80    | 6.86 |  |
|       | -15 | 53.82   | 2.20 | 24.44 | 53.82         | 2.20 | 24.44 | 40.47 | 2.55 | 15.90 | 26.64 | 2.93 | 9.10  | 21.53 | 3.35  | 6.42 | 21.53 | 3.35    | 6.42 |  |
|       | -10 | 57.30   | 2.39 | 23.96 | 57.30         | 2.39 | 23.96 | 43.09 | 2.80 | 15.38 | 28.36 | 3.37 | 8.42  | 22.92 | 3.64  | 6.30 | 22.92 | 3.64    | 6.30 |  |
|       | -7  | 62.24   | 2.67 | 23.30 | 62.24         | 2.67 | 23.30 | 46.80 | 3.19 | 14.66 | 30.81 | 3.82 | 8.06  | 27.57 | 4.55  | 6.06 | 27.57 | 4.55    | 6.06 |  |
|       | 0   | 78.33   | 2.96 | 26.46 | 62.66         | 3.11 | 20.17 | 47.12 | 3.40 | 13.86 | 31.02 | 3.90 | 7.96  | 29.41 | 4.99  | 5.90 | 29.41 | 4.99    | 5.90 |  |
|       | 2   | 81.68   | 3.10 | 26.34 | 62.83         | 3.34 | 18.81 | 47.25 | 3.65 | 12.93 | 31.10 | 3.96 | 7.85  | 31.10 | 5.34  | 5.82 | 31.10 | 5.34    | 5.82 |  |
|       | 5   | 89.57   | 3.41 | 26.30 | 68.90         | 3.72 | 18.51 | 51.81 | 4.07 | 12.72 | 34.11 | 4.42 | 7.72  | 34.11 | 5.92  | 5.76 | 34.11 | 5.92    | 5.76 |  |
|       | 7   | 99.62   | 3.80 | 26.20 | 70.97         | 3.86 | 18.40 | 53.37 | 4.26 | 12.54 | 35.13 | 4.62 | 7.61  | 35.13 | 6.25  | 5.62 | 35.13 | 6.25    | 5.62 |  |
|       | 10  | 105.06  | 4.06 | 25.86 | 75.04         | 4.17 | 18.02 | 56.43 | 4.56 | 12.38 | 37.14 | 4.94 | 7.52  | 37.14 | 6.68  | 5.56 | 37.14 | 6.68    | 5.56 |  |
|       | 15  | 110.80  | 4.40 | 25.20 | 79.14         | 4.45 | 17.80 | 59.51 | 4.86 | 12.24 | 39.17 | 5.27 | 7.43  | 39.17 | 7.12  | 5.50 | 39.17 | 7.12    | 5.50 |  |
|       | 20  | 118.78  | 4.76 | 24.96 | 84.84         | 4.80 | 17.69 | 63.80 | 5.25 | 12.16 | 42.00 | 5.69 | 7.38  | 42.00 | 7.69  | 5.46 | 42.00 | 7.69    | 5.46 |  |
|       | 25  | 126.76  | 5.10 | 24.86 | 90.54         | 5.15 | 17.60 | 68.09 | 5.63 | 12.10 | 44.82 | 6.14 | 7.30  | 44.82 | 8.79  | 5.10 | 44.82 | 8.79    | 5.10 |  |
|       | 30  | 135.86  | 5.48 | 24.78 | 96.27         | 5.50 | 17.50 | 72.40 | 6.02 | 12.03 | 47.65 | 6.56 | 7.26  | 47.65 | 9.49  | 5.02 | 47.65 | 9.49    | 5.02 |  |
|       | 35  | 144.00  | 5.83 | 24.68 | 101.97        | 5.85 | 17.43 | 76.68 | 6.40 | 11.98 | 50.48 | 6.98 | 7.23  | 50.48 | 10.34 | 4.88 | 50.48 | 10.34   | 4.88 |  |
|       | 40  | 152.89  | 6.22 | 24.60 | 107.67        | 6.77 | 15.90 | 80.97 | 7.41 | 10.93 | 53.30 | 8.08 | 6.60  | 53.30 | 11.49 | 4.64 | 53.30 | 11.49   | 4.64 |  |
|       | 45  | 160.99  | 6.59 | 24.42 | 113.37        | 7.41 | 15.31 | 85.25 | 8.10 | 10.52 | 56.12 | 8.83 | 6.35  | 56.12 | 12.25 | 4.58 | 56.12 | 12.25   | 4.58 |  |
| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       |       |       | 25%  |       | Minimum |      |  |
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP   | PI   | HC    | COP     | PI   |  |
| 50    | -25 | 41.06   | 1.54 | 26.64 | 41.06         | 1.54 | 26.64 | 30.88 | 1.77 | 17.44 | 20.32 | 1.99 | 10.20 | 16.42 | 2.26  | 7.26 | 16.42 | 2.26    | 7.26 |  |
|       | -20 | 46.12   | 1.79 | 25.78 | 46.12         | 1.79 | 25.78 | 34.68 | 2.06 | 16.88 | 22.83 | 2.23 | 10.24 | 18.45 | 2.56  | 7.22 | 18.45 | 2.56    | 7.22 |  |
|       | -15 | 50.28   | 1.99 | 25.30 | 50.28         | 1.99 | 25.30 | 38.83 | 2.34 | 16.56 | 25.56 | 2.54 | 10.05 | 20.66 | 2.93  | 7.06 | 20.66 | 2.93    | 7.06 |  |
|       | -10 | 54.28   | 2.24 | 24.22 | 54.28         | 2.24 | 24.22 | 46.95 | 2.82 | 16.65 | 30.91 | 3.06 | 10.10 | 24.98 | 3.63  | 6.88 | 24.98 | 3.63    | 6.88 |  |
|       | -7  | 58.26   | 2.49 | 23.36 | 58.26         | 2.49 | 23.36 | 47.50 | 2.96 | 16.06 | 31.26 | 3.21 | 9.75  | 27.98 | 4.09  | 6.84 | 27.98 | 4.09    | 6.84 |  |
|       | 0   | 74.46   | 2.69 | 27.70 | 63.32         | 3.06 | 20.68 | 47.62 | 3.35 | 14.21 | 31.34 | 3.63 | 8.63  | 29.72 | 4.44  | 6.70 | 29.72 | 4.44    | 6.70 |  |
|       | 2   | 81.50   | 2.98 | 27.32 | 63.86         | 3.26 | 19.58 | 48.02 | 3.57 | 13.46 | 31.61 | 3.87 | 8.17  | 31.61 | 4.75  | 6.66 | 31.61 | 4.75    | 6.66 |  |
|       | 5   | 84.56   | 3.11 | 27.22 | 64.40         | 3.32 | 19.42 | 48.43 | 3.63 | 13.35 | 31.88 | 3.93 | 8.10  | 31.88 | 4.90  | 6.50 | 31.88 | 4.90    | 6.50 |  |
|       | 7   | 92.64   | 3.42 | 27.10 | 68.56         | 3.55 | 19.30 | 51.56 | 3.89 | 13.27 | 33.94 | 4.21 | 8.05  | 33.94 | 5.29  | 6.42 | 33.94 | 5.29    | 6.42 |  |
|       | 10  | 96.01   | 3.60 | 26.68 | 72.48         | 3.78 | 19.20 | 54.50 | 4.13 | 13.20 | 35.88 | 4.48 | 8.01  | 35.88 | 5.69  | 6.30 | 35.88 | 5.69    | 6.30 |  |
|       | 15  | 100.48  | 3.80 | 26.42 | 76.44         | 4.01 | 19.08 | 57.48 | 4.38 | 13.11 | 37.84 | 4.75 | 7.96  | 37.84 | 6.08  | 6.22 | 37.84 | 6.08    | 6.22 |  |
|       | 20  | 103.96  | 3.94 | 26.38 | 81.90         | 4.30 | 19.04 | 61.59 | 4.71 | 13.09 | 40.54 | 5.10 | 7.94  | 40.54 | 6.65  | 6.10 | 40.54 | 6.65    | 6.10 |  |
|       | 25  | 107.52  | 4.09 | 26.30 | 87.36         | 4.60 | 19.00 | 65.69 | 5.03 | 13.06 | 43.24 | 5.57 | 7.76  | 43.24 | 7.18  | 6.02 | 43.24 | 7.18    | 6.02 |  |
|       | 30  | 110.42  | 4.21 | 26.22 | 92.86         | 4.90 | 18.94 | 69.83 | 5.36 | 13.02 | 45.97 | 5.95 | 7.72  | 45.97 | 7.71  | 5.96 | 45.97 | 7.71    | 5.96 |  |
|       | 35  | 114.86  | 4.39 | 26.18 | 98.32         | 5.21 | 18.86 | 73.94 | 5.70 | 12.96 | 48.67 | 6.49 | 7.50  | 48.67 | 8.31  | 5.86 | 48.67 | 8.31    | 5.86 |  |
|       | 40  | 118.62  | 4.56 | 26.04 | 103.78        | 5.52 | 18.80 | 78.04 | 6.04 | 12.92 | 51.37 | 7.02 | 7.32  | 51.37 | 8.83  | 5.82 | 51.37 | 8.83    | 5.82 |  |
|       | 45  | 122.58  | 4.72 | 25.98 | 109.24        | 5.82 | 18.77 | 82.15 | 6.37 | 12.90 | 54.07 | 7.68 | 7.04  | 54.07 | 9.49  | 5.70 | 54.07 | 9.49    | 5.70 |  |
| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       |       |       | 25%  |       | Minimum |      |  |
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP   | PI   | HC    | COP     | PI   |  |
| 55    | -25 | 37.18   | 1.20 | 30.92 | 37.18         | 1.20 | 30.92 | 25.42 | 1.37 | 18.56 | 16.73 | 1.50 | 11.12 | 14.14 | 1.72  | 8.20 | 14.14 | 1.72    | 8.20 |  |
|       | -20 | 43.60   | 1.41 | 30.88 | 43.60         | 1.41 | 30.88 | 29.81 | 1.65 | 18.02 | 19.62 | 1.79 | 10.94 | 17.90 | 2.21  | 8.10 | 17.90 | 2.21    | 8.10 |  |
|       | -15 | 53.13   | 1.72 | 30.86 | 53.13         | 1.72 | 30.86 | 36.32 | 2.07 | 17.56 | 23.91 | 2.25 | 10.64 | 18.50 | 2.32  | 7.98 | 18.50 | 2.32    | 7.98 |  |
|       | -10 | 65.11   | 2.21 | 29.50 | 65.11         | 2.21 | 29.50 | 37.89 | 2.19 | 17.30 | 24.94 | 2.38 | 10.46 | 18.30 | 2.38  | 7.68 | 18.30 | 2.38    | 7.68 |  |
|       | -7  | 66.76   | 2.36 | 28.30 | 66.76         | 2.36 | 28.30 | 43.51 | 2.56 | 16.99 |       |      |       |       |       |      |       |         |      |  |

# R290 Climastar Series

| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       | 25%   |      |      | Minimum |      |      |
|-------|-----|---------|------|-------|---------------|------|-------|-------|------|-------|-------|------|-------|-------|------|------|---------|------|------|
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI   | HC      | COP  | PI   |
| 60    | -25 | /       | /    | /     | 26.54         | 0.94 | 28.30 | 19.96 | 1.08 | 18.53 | 13.14 | 1.12 | 11.72 | 12.40 | 1.42 | 8.72 | 12.40   | 1.42 | 8.72 |
|       | -20 | 36.48   | 1.14 | 31.94 | 33.16         | 1.21 | 27.42 | 24.94 | 1.39 | 17.95 | 16.41 | 1.51 | 10.89 | 13.26 | 1.52 | 8.70 | 13.26   | 1.52 | 8.70 |
|       | -15 | 43.76   | 1.37 | 31.88 | 39.78         | 1.47 | 27.10 | 29.91 | 1.69 | 17.74 | 19.69 | 1.83 | 10.77 | 15.91 | 1.86 | 8.56 | 15.91   | 1.86 | 8.56 |
|       | -10 | 53.32   | 1.68 | 31.68 | 50.78         | 1.91 | 26.64 | 38.19 | 2.19 | 17.42 | 23.54 | 2.20 | 10.70 | 20.11 | 2.39 | 8.42 | 20.11   | 2.39 | 8.42 |
|       | -7  | 56.28   | 1.80 | 31.26 | 53.60         | 2.14 | 25.02 | 40.31 | 2.34 | 17.20 | 24.53 | 2.35 | 10.44 | 21.74 | 2.62 | 8.30 | 21.74   | 2.62 | 8.30 |
|       | 0   | 69.63   | 2.25 | 31.00 | 53.56         | 2.43 | 22.04 | 40.56 | 2.68 | 15.15 | 25.31 | 2.75 | 9.19  | 23.14 | 2.80 | 8.26 | 23.14   | 2.80 | 8.26 |
|       | 2   | 72.79   | 2.36 | 30.82 | 53.92         | 2.58 | 20.86 | 40.86 | 2.85 | 14.34 | 26.69 | 2.87 | 9.30  | 24.69 | 3.05 | 8.10 | 24.69   | 3.05 | 8.10 |
|       | 5   | 78.12   | 2.56 | 30.50 | 55.80         | 2.70 | 20.70 | 41.10 | 2.89 | 14.23 | 27.62 | 3.20 | 8.64  | 25.62 | 3.23 | 7.94 | 25.62   | 3.23 | 7.94 |
|       | 7   | 85.85   | 2.84 | 30.26 | 58.24         | 2.84 | 20.51 | 43.80 | 3.11 | 14.10 | 28.83 | 3.37 | 8.56  | 26.83 | 3.40 | 7.90 | 26.83   | 3.40 | 7.90 |
|       | 10  | 90.99   | 3.03 | 30.02 | 61.90         | 3.04 | 20.34 | 46.55 | 3.33 | 13.98 | 30.64 | 3.61 | 8.49  | 28.64 | 3.69 | 7.76 | 28.64   | 3.69 | 7.76 |
|       | 15  | 93.43   | 3.12 | 29.96 | 63.56         | 3.15 | 20.18 | 47.80 | 3.45 | 13.87 | 31.46 | 3.74 | 8.42  | 29.46 | 3.85 | 7.66 | 29.46   | 3.85 | 7.66 |
|       | 20  | 102.02  | 3.43 | 29.74 | 69.40         | 3.49 | 19.90 | 52.19 | 3.82 | 13.68 | 34.35 | 4.14 | 8.30  | 34.35 | 4.58 | 7.50 | 34.35   | 4.58 | 7.50 |
|       | 25  | 110.60  | 3.74 | 29.58 | 75.24         | 3.81 | 19.74 | 56.58 | 4.17 | 13.57 | 37.24 | 4.55 | 8.18  | 37.24 | 5.02 | 7.42 | 37.24   | 5.02 | 7.42 |
|       | 30  | 120.87  | 4.12 | 29.32 | 81.12         | 4.14 | 19.58 | 61.00 | 4.53 | 13.46 | 40.15 | 4.94 | 8.12  | 40.15 | 5.50 | 7.30 | 40.15   | 5.50 | 7.30 |
|       | 35  | 129.57  | 4.43 | 29.26 | 86.96         | 4.47 | 19.44 | 65.39 | 4.89 | 13.36 | 43.05 | 5.34 | 8.07  | 43.05 | 5.96 | 7.22 | 43.05   | 5.96 | 7.22 |
|       | 40  | 138.27  | 4.74 | 29.20 | 92.80         | 4.79 | 19.36 | 69.79 | 5.24 | 13.31 | 45.94 | 5.72 | 8.03  | 45.94 | 6.42 | 7.16 | 45.94   | 6.42 | 7.16 |
|       | 45  | 146.97  | 5.10 | 28.82 | 98.64         | 5.52 | 17.86 | 74.18 | 6.04 | 12.28 | 48.83 | 6.59 | 7.41  | 48.83 | 6.94 | 7.04 | 48.83   | 6.94 | 7.04 |
| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       | 25%   |      |      | Minimum |      |      |
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI   | HC      | COP  | PI   |
| 65    | -25 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -20 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -15 | 37.49   | 1.13 | 33.30 | 34.08         | 1.20 | 28.46 | 29.62 | 1.44 | 20.50 | 16.87 | 1.45 | 11.66 | 15.02 | 1.51 | 9.98 | 15.02   | 1.51 | 9.98 |
|       | -10 | 45.78   | 1.38 | 33.12 | 43.60         | 1.56 | 27.96 | 33.30 | 1.73 | 19.22 | 21.58 | 1.90 | 11.38 | 19.44 | 2.00 | 9.70 | 19.44   | 2.00 | 9.70 |
|       | -7  | 57.92   | 1.76 | 32.84 | 47.54         | 1.89 | 25.18 | 34.56 | 2.00 | 17.31 | 23.53 | 2.24 | 10.50 | 21.66 | 2.28 | 9.50 | 21.66   | 2.28 | 9.50 |
|       | 0   | 61.93   | 1.90 | 32.56 | 47.64         | 2.11 | 22.60 | 35.83 | 2.31 | 15.53 | 23.58 | 2.50 | 9.43  | 23.58 | 2.50 | 9.43 | 23.58   | 2.50 | 9.43 |
|       | 2   | 64.75   | 1.99 | 32.46 | 47.96         | 2.23 | 21.50 | 36.07 | 2.44 | 14.78 | 23.74 | 2.65 | 8.97  | 23.74 | 2.65 | 8.97 | 23.74   | 2.65 | 8.97 |
|       | 5   | 72.32   | 2.23 | 32.40 | 51.66         | 2.41 | 21.44 | 38.85 | 2.64 | 14.74 | 25.57 | 2.86 | 8.94  | 25.57 | 2.86 | 8.94 | 25.57   | 2.86 | 8.94 |
|       | 7   | 81.10   | 2.52 | 32.18 | 55.02         | 2.60 | 21.16 | 41.38 | 2.84 | 14.54 | 27.23 | 3.09 | 8.83  | 27.23 | 3.09 | 8.83 | 27.23   | 3.09 | 8.83 |
|       | 10  | 83.67   | 2.63 | 31.78 | 56.92         | 2.70 | 21.10 | 42.80 | 2.95 | 14.50 | 28.18 | 3.20 | 8.80  | 28.18 | 3.20 | 8.80 | 28.18   | 3.20 | 8.80 |
|       | 15  | 85.82   | 2.72 | 31.54 | 58.38         | 2.79 | 20.92 | 43.90 | 3.05 | 14.38 | 28.90 | 3.31 | 8.73  | 28.90 | 3.31 | 8.73 | 28.90   | 3.31 | 8.73 |
|       | 20  | 94.17   | 2.99 | 31.50 | 64.06         | 3.09 | 20.74 | 48.17 | 3.38 | 14.26 | 31.71 | 3.66 | 8.65  | 31.71 | 3.66 | 8.65 | 31.71   | 3.66 | 8.65 |
|       | 25  | 102.66  | 3.27 | 31.42 | 69.84         | 3.38 | 20.64 | 52.52 | 3.70 | 14.19 | 34.57 | 4.06 | 8.52  | 34.57 | 4.06 | 8.52 | 34.57   | 4.06 | 8.52 |
|       | 30  | 112.58  | 3.59 | 31.32 | 75.56         | 3.70 | 20.42 | 56.82 | 4.05 | 14.04 | 37.40 | 4.41 | 8.47  | 37.40 | 4.41 | 8.47 | 37.40   | 4.41 | 8.47 |
|       | 35  | 120.75  | 3.87 | 31.22 | 81.04         | 4.00 | 20.24 | 60.94 | 4.38 | 13.91 | 40.11 | 4.78 | 8.40  | 40.11 | 4.78 | 8.40 | 40.11   | 4.78 | 8.40 |
|       | 40  | 128.91  | 4.14 | 31.16 | 86.52         | 4.29 | 20.18 | 65.06 | 4.69 | 13.87 | 42.83 | 5.11 | 8.37  | 42.83 | 5.11 | 8.37 | 42.83   | 5.11 | 8.37 |
|       | 45  | 137.05  | 4.41 | 31.08 | 91.98         | 4.64 | 19.84 | 69.17 | 5.07 | 13.64 | 45.53 | 5.53 | 8.23  | 45.53 | 5.53 | 8.23 | 45.53   | 5.53 | 8.23 |
| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       | 25%   |      |      | Minimum |      |      |
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI   | HC      | COP  | PI   |
| 70    | -25 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -20 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -15 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -10 | 42.21   | 1.26 | 33.53 | 40.20         | 1.39 | 28.84 | 30.23 | 1.53 | 19.82 | 19.90 | 1.65 | 12.03 | 16.08 | 1.70 | 9.44 | 16.08   | 1.73 | 9.30 |
|       | -7  | 43.53   | 1.31 | 33.25 | 41.46         | 1.61 | 25.70 | 31.18 | 1.76 | 17.67 | 20.52 | 1.91 | 10.72 | 18.37 | 1.98 | 9.26 | 18.37   | 1.99 | 9.22 |
|       | 0   | 54.68   | 1.65 | 33.06 | 42.06         | 1.85 | 22.78 | 31.63 | 2.02 | 15.66 | 20.82 | 2.27 | 9.18  | 20.82 | 2.27 | 9.18 | 20.82   | 2.27 | 9.18 |
|       | 2   | 60.02   | 1.82 | 32.93 | 44.46         | 2.05 | 21.70 | 33.43 | 2.24 | 14.92 | 22.01 | 2.43 | 9.05  | 22.01 | 2.43 | 9.05 | 22.01   | 2.43 | 9.05 |
|       | 5   | 67.90   | 2.07 | 32.88 | 48.50         | 2.25 | 21.58 | 36.47 | 2.46 | 14.83 | 24.01 | 2.67 | 9.00  | 24.01 | 2.67 | 9.00 | 24.01   | 2.67 | 9.00 |
|       | 7   | 76.15   | 2.33 | 32.72 | 51.66         | 2.43 | 21.30 | 38.85 | 2.65 | 14.64 | 25.57 | 2.88 | 8.89  | 25.57 | 2.88 | 8.89 | 25.57   | 2.88 | 8.89 |
|       | 10  | 80.03   | 2.47 | 32.44 | 54.44         | 2.57 | 21.18 | 40.94 | 2.81 | 14.56 | 26.95 | 3.05 | 8.84  | 26.95 | 3.05 | 8.84 | 26.95   | 3.05 | 8.84 |
|       | 15  | 82.41   | 2.55 | 32.37 | 56.06         | 2.66 | 21.06 | 42.16 | 2.91 | 14.48 | 27.75 | 3.16 | 8.79  | 27.75 | 3.16 | 8.79 | 27.75   | 3.16 | 8.79 |
|       | 20  | 86.32   | 2.67 | 32.28 | 58.72         | 2.80 | 20.94 | 44.16 | 3.07 | 14.39 | 29.07 | 3.33 | 8.74  | 29.07 | 3.33 | 8.74 | 29.07   | 3.33 | 8.74 |
|       | 25  | 94.73   | 2.96 | 31.96 | 64.44         | 3.09 | 20.84 | 48.46 | 3.38 | 14.32 | 31.90 | 3.64 | 8.76  | 31.90 | 3.68 | 8.66 | 31.90   | 3.68 | 8.66 |
|       | 30  | 104.30  | 3.29 | 31.72 | 70.00         | 3.38 | 20.71 | 52.64 | 3.70 | 14.23 | 34.65 | 4.03 | 8.59  | 34.65 | 4.03 | 8.59 | 34.65   | 4.03 | 8.59 |
|       | 35  | 111.93  | 3.56 | 31.47 | 75.12         | 3.68 | 20.40 | 56.49 | 4.03 | 14.02 | 37.18 | 4.39 | 8.46  | 37.18 | 4.39 | 8.46 | 37.18   | 4.39 | 8.46 |
|       | 40  | 119.56  | 3.89 | 30.75 | 80.24         | 3.95 | 20.30 | 60.34 | 4.32 | 13.95 | 39.72 | 4.72 | 8.42  | 39.72 | 4.72 | 8.42 | 39.72   | 4.72 | 8.42 |
|       | 45  | 127.13  | 4.18 | 30.40 | 85.32         | 4.24 | 20.10 | 64.16 | 4.64 | 13.82 | 42.23 | 5.06 | 8.34  | 42.23 | 5.06 | 8.34 | 42.23   | 5.06 | 8.34 |
| TWout | DB  | Maximum |      |       | 100%( Normal) |      |       | 75%   |      |       | 50%   |      |       | 25%   |      |      | Minimum |      |      |
|       |     | HC      | COP  | PI    | HC            | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI    | HC    | COP  | PI   | HC      | COP  | PI   |
| 75    | -25 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -20 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -15 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -10 | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | -7  | /       | /    | /     | /             | /    | /     | /     | /    | /     | /     | /    | /     | /     | /    | /    | /       | /    | /    |
|       | 0   | 46.90   | 1.36 | 34.38 | 36.08         | 1.54 | 23.44 | 27.13 | 1.68 | 16.11 | 17.86 | 1.83 | 9.78  | 17.86 | 1.83 | 9.78 | 17.86   | 1.83 | 9.78 |
|       | 2   | 52.65   | 1.56 | 33.76 | 39.00         | 1.75 | 22.30 | 29.33 | 1.91 | 15.33 | 19.31 | 2.08 | 9.30  | 19.31 | 2.08 | 9.30 | 19.31   | 2.08 | 9.30 |
|       | 5   | 61.68   | 1.84 | 33.54 | 44.06         | 1.99 | 22.12 | 33.13 | 2.18 | 15.20 | 21.81 | 2.36 | 9.23  | 21.81 | 2.36 | 9.23 | 21.81   | 2.36 | 9.23 |
|       | 7   | 69.93   | 2.11 | 33.19 | 47.44         | 2.17 | 21.84 | 35.67 | 2.38 | 15.01 | 23.48 | 2.58 | 9.11  | 23.48 | 2.58 | 9.11 | 23.48   | 2.58 | 9.11 |
|       | 10  | 73.09   | 2.20 | 33.18 | 49.72         | 2.31 | 21.50 | 37.39 | 2.53 | 14    |       |      |       |       |      |      |         |      |      |

# R290 Climastar Series

## 5.2 Cooling Capacity Tables

NE-F500HCR5TINVM-USC

| TWout | DB | Maximum |       |       | 100%( Normal) |       |      | 75%   |       |      | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|-------|----|---------|-------|-------|---------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
|       |    | CC      | EER   | PI    | CC            | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 7     | 10 | 46.89   | 6.72  | 6.97  | 39.68         | 7.06  | 5.62 | 29.96 | 7.40  | 4.05 | 21.64 | 7.84  | 2.76 | 18.64 | 8.25  | 2.26 | 18.64   | 8.25  | 2.26 |
|       | 20 | 38.68   | 4.83  | 8.01  | 33.15         | 5.07  | 6.54 | 25.03 | 5.32  | 4.71 | 16.58 | 5.63  | 2.94 | 15.13 | 6.38  | 2.37 | 15.13   | 6.38  | 2.37 |
|       | 30 | 36.59   | 3.90  | 9.37  | 31.27         | 4.09  | 7.65 | 23.61 | 4.29  | 5.51 | 15.64 | 4.74  | 3.30 | 12.79 | 5.16  | 2.48 | 12.79   | 5.16  | 2.48 |
|       | 35 | 35.00   | 2.83  | 12.36 | 29.30         | 3.56  | 8.24 | 22.12 | 3.84  | 5.77 | 14.65 | 4.26  | 3.44 | 11.11 | 4.30  | 2.58 | 11.11   | 4.30  | 2.58 |
|       | 40 | 28.17   | 2.17  | 12.98 | 25.42         | 2.82  | 9.01 | 19.19 | 2.96  | 6.49 | 12.71 | 3.13  | 4.05 | 10.52 | 3.60  | 2.92 | 10.52   | 3.60  | 2.92 |
|       | 45 | 22.99   | 1.71  | 13.45 | 20.17         | 2.20  | 9.15 | 15.23 | 2.31  | 6.59 | 10.89 | 2.45  | 4.45 | 8.88  | 2.69  | 3.30 | 8.88    | 2.69  | 3.30 |
| TWout | DB | Maximum |       |       | 100%( Normal) |       |      | 75%   |       |      | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |    | CC      | EER   | PI    | CC            | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 15    | 10 | 54.48   | 8.05  | 6.76  | 46.10         | 8.46  | 5.45 | 34.81 | 8.87  | 3.93 | 25.15 | 9.40  | 2.68 | 20.73 | 9.64  | 2.15 | 20.73   | 9.64  | 2.15 |
|       | 20 | 45.56   | 5.86  | 7.77  | 39.05         | 6.16  | 6.34 | 29.48 | 6.45  | 4.57 | 19.53 | 6.84  | 2.85 | 17.89 | 7.78  | 2.30 | 17.89   | 7.78  | 2.30 |
|       | 30 | 39.67   | 4.36  | 9.09  | 36.84         | 4.96  | 7.42 | 27.81 | 5.21  | 5.34 | 18.42 | 5.75  | 3.20 | 16.66 | 6.48  | 2.57 | 16.66   | 6.48  | 2.57 |
|       | 35 | 37.63   | 3.14  | 11.99 | 31.63         | 3.96  | 7.99 | 23.88 | 4.27  | 5.59 | 17.24 | 5.17  | 3.34 | 15.82 | 6.04  | 2.62 | 15.82   | 6.04  | 2.62 |
|       | 40 | 34.57   | 2.75  | 12.59 | 31.19         | 3.57  | 8.74 | 23.55 | 3.74  | 6.29 | 16.60 | 4.22  | 3.93 | 15.60 | 5.51  | 2.83 | 15.60   | 5.51  | 2.83 |
|       | 45 | 29.31   | 2.25  | 13.05 | 25.71         | 2.90  | 8.88 | 19.41 | 3.04  | 6.39 | 15.24 | 3.53  | 4.31 | 13.88 | 4.34  | 3.20 | 13.88   | 4.34  | 3.20 |
| TWout | DB | Maximum |       |       | 100%( Normal) |       |      | 75%   |       |      | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |    | CC      | EER   | PI    | CC            | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 25    | 10 | 62.07   | 9.46  | 6.56  | 52.52         | 9.93  | 5.29 | 39.65 | 10.42 | 3.81 | 28.65 | 11.04 | 2.60 | 23.76 | 11.37 | 2.09 | 23.76   | 11.37 | 2.09 |
|       | 20 | 54.37   | 7.21  | 7.54  | 46.60         | 7.57  | 6.15 | 35.18 | 7.94  | 4.43 | 23.30 | 8.41  | 2.77 | 21.98 | 9.86  | 2.23 | 21.98   | 9.86  | 2.23 |
|       | 30 | 47.69   | 5.41  | 8.82  | 44.28         | 6.15  | 7.20 | 33.43 | 6.45  | 5.18 | 22.14 | 7.13  | 3.10 | 20.03 | 8.03  | 2.49 | 20.03   | 8.03  | 2.49 |
|       | 35 | 41.96   | 3.61  | 11.63 | 37.26         | 4.81  | 7.75 | 28.13 | 5.18  | 5.43 | 18.63 | 5.76  | 3.24 | 16.77 | 6.60  | 2.54 | 16.77   | 6.60  | 2.54 |
|       | 40 | 40.05   | 3.28  | 12.21 | 36.14         | 4.26  | 8.48 | 27.28 | 4.47  | 6.10 | 18.07 | 4.74  | 3.81 | 15.22 | 5.54  | 2.75 | 15.22   | 5.54  | 2.75 |
|       | 45 | 34.55   | 2.73  | 12.66 | 30.31         | 3.52  | 8.61 | 22.88 | 3.69  | 6.20 | 16.37 | 3.91  | 4.18 | 13.63 | 4.39  | 3.10 | 13.63   | 4.39  | 3.10 |
| TWout | DB | Maximum |       |       | 100%( Normal) |       |      | 75%   |       |      | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |    | CC      | EER   | PI    | CC            | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 35    | 10 | 69.66   | 10.94 | 6.36  | 58.94         | 11.49 | 5.13 | 44.50 | 12.05 | 3.69 | 32.15 | 12.77 | 2.52 | 25.15 | 13.59 | 1.85 | 25.15   | 13.59 | 1.85 |
|       | 20 | 64.34   | 8.80  | 7.31  | 55.15         | 9.24  | 5.97 | 41.64 | 9.69  | 4.30 | 27.58 | 10.27 | 2.69 | 22.71 | 11.02 | 2.06 | 22.71   | 11.02 | 2.06 |
|       | 30 | 55.70   | 6.51  | 8.55  | 51.72         | 7.41  | 6.98 | 39.05 | 7.77  | 5.03 | 25.86 | 8.59  | 3.01 | 21.76 | 9.00  | 2.42 | 21.76   | 9.00  | 2.42 |
|       | 35 | 48.29   | 4.28  | 11.28 | 48.29         | 6.42  | 7.52 | 36.46 | 6.93  | 5.26 | 24.15 | 7.69  | 3.14 | 19.95 | 8.10  | 2.46 | 19.95   | 8.10  | 2.46 |
|       | 40 | 47.36   | 4.00  | 11.85 | 42.73         | 5.20  | 8.22 | 32.26 | 5.45  | 5.92 | 21.37 | 5.77  | 3.70 | 18.71 | 7.02  | 2.67 | 18.71   | 7.02  | 2.67 |
|       | 45 | 39.73   | 3.24  | 12.28 | 34.85         | 4.17  | 8.35 | 26.31 | 4.38  | 6.01 | 18.82 | 4.64  | 4.06 | 15.21 | 5.05  | 3.01 | 15.21   | 5.05  | 3.01 |

NE-F1000HCR5TINVM-USC

| TWout | DB | Maximum |       |       | 100%( Normal) |       |       | 75%   |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|-------|----|---------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|---------|-------|------|
|       |    | CC      | EER   | PI    | CC            | EER   | PI    | CC    | EER   | PI    | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 7     | 10 | 93.79   | 6.72  | 13.95 | 79.36         | 7.06  | 11.24 | 59.92 | 7.40  | 8.09  | 43.29 | 7.84  | 5.52 | 37.28 | 8.25  | 4.52 | 37.28   | 8.25  | 4.52 |
|       | 20 | 77.35   | 4.83  | 16.02 | 66.30         | 5.07  | 13.08 | 50.06 | 5.32  | 9.42  | 33.15 | 5.63  | 5.89 | 30.26 | 6.38  | 4.74 | 30.26   | 6.38  | 4.74 |
|       | 30 | 73.17   | 3.90  | 18.74 | 62.54         | 4.09  | 15.30 | 47.22 | 4.29  | 11.02 | 31.27 | 4.74  | 6.60 | 25.58 | 5.16  | 4.96 | 25.58   | 5.16  | 4.96 |
|       | 35 | 70.00   | 2.83  | 24.72 | 58.60         | 3.56  | 16.48 | 44.24 | 3.84  | 11.54 | 29.30 | 4.26  | 6.88 | 22.22 | 4.30  | 5.16 | 22.22   | 4.31  | 5.16 |
|       | 40 | 56.35   | 2.17  | 25.96 | 50.84         | 2.82  | 18.02 | 38.38 | 2.96  | 12.97 | 25.42 | 3.13  | 8.11 | 21.04 | 3.60  | 5.84 | 21.04   | 3.60  | 5.84 |
|       | 45 | 45.99   | 1.71  | 26.90 | 40.34         | 2.20  | 18.30 | 30.46 | 2.31  | 13.18 | 21.78 | 2.45  | 8.89 | 17.76 | 2.69  | 6.60 | 17.76   | 2.69  | 6.60 |
| TWout | DB | Maximum |       |       | 100%( Normal) |       |       | 75%   |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |    | CC      | EER   | PI    | CC            | EER   | PI    | CC    | EER   | PI    | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 15    | 10 | 108.96  | 8.05  | 13.53 | 92.20         | 8.46  | 10.90 | 69.61 | 8.87  | 7.85  | 50.29 | 9.40  | 5.35 | 41.46 | 9.64  | 4.30 | 41.46   | 9.64  | 4.30 |
|       | 20 | 91.12   | 5.86  | 15.54 | 78.10         | 6.16  | 12.69 | 58.97 | 6.45  | 9.14  | 39.05 | 6.84  | 5.71 | 35.78 | 7.78  | 4.60 | 35.78   | 7.78  | 4.60 |
|       | 30 | 79.35   | 4.36  | 18.18 | 73.68         | 4.96  | 14.84 | 55.63 | 5.21  | 10.69 | 36.84 | 5.75  | 6.40 | 33.32 | 6.48  | 5.14 | 33.32   | 6.48  | 5.14 |
|       | 35 | 75.26   | 3.14  | 23.98 | 63.26         | 3.96  | 15.99 | 47.76 | 4.27  | 11.19 | 34.48 | 5.17  | 6.67 | 31.64 | 6.04  | 5.24 | 31.64   | 6.04  | 5.24 |
|       | 40 | 69.14   | 2.75  | 25.18 | 62.38         | 3.57  | 17.48 | 47.10 | 3.74  | 12.59 | 33.20 | 4.22  | 7.87 | 31.19 | 5.51  | 5.66 | 31.20   | 5.51  | 5.66 |
|       | 45 | 58.62   | 2.25  | 26.09 | 51.42         | 2.90  | 17.75 | 38.82 | 3.04  | 12.78 | 30.48 | 3.53  | 8.63 | 27.77 | 4.34  | 6.40 | 27.76   | 4.34  | 6.40 |
| TWout | DB | Maximum |       |       | 100%( Normal) |       |       | 75%   |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |    | CC      | EER   | PI    | CC            | EER   | PI    | CC    | EER   | PI    | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 25    | 10 | 124.14  | 9.46  | 13.12 | 105.04        | 9.93  | 10.58 | 79.31 | 10.42 | 7.61  | 57.29 | 11.04 | 5.19 | 47.52 | 11.37 | 4.18 | 47.52   | 11.37 | 4.18 |
|       | 20 | 108.73  | 7.21  | 15.08 | 93.20         | 7.57  | 12.31 | 70.37 | 7.94  | 8.86  | 46.60 | 8.41  | 5.54 | 43.96 | 9.86  | 4.46 | 43.96   | 9.86  | 4.46 |
|       | 30 | 95.37   | 5.41  | 17.63 | 88.56         | 6.15  | 14.40 | 66.86 | 6.45  | 10.36 | 44.28 | 7.13  | 6.21 | 40.06 | 8.03  | 4.99 | 40.06   | 8.03  | 4.99 |
|       | 35 | 83.92   | 3.61  | 23.26 | 74.52         | 4.81  | 15.51 | 56.26 | 5.18  | 10.85 | 37.26 | 5.76  | 6.47 | 33.53 | 6.60  | 5.08 | 33.53   | 6.60  | 5.08 |
|       | 40 | 80.10   | 3.28  | 24.43 | 72.27         | 4.26  | 16.96 | 54.56 | 4.47  | 12.21 | 36.14 | 4.74  | 7.63 | 30.44 | 5.54  | 5.49 | 30.44   | 5.54  | 5.49 |
|       | 45 | 69.11   | 2.73  | 25.31 | 60.62         | 3.52  | 17.22 | 45.77 | 3.69  | 12.40 | 32.73 | 3.91  | 8.37 | 27.26 | 4.39  | 6.21 | 27.26   | 4.39  | 6.21 |
| TWout | DB | Maximum |       |       | 100%( Normal) |       |       | 75%   |       |       | 50%   |       |      | 25%   |       |      | Minimum |       |      |
|       |    | CC      | EER   | PI    | CC            | EER   | PI    | CC    | EER   | PI    | CC    | EER   | PI   | CC    | EER   | PI   | CC      | EER   | PI   |
| 35    | 10 | 139.31  | 10.94 | 12.73 | 117.88        | 11.49 | 10.26 | 89.00 | 12.05 | 7.39  | 64.30 | 12.77 | 5.04 | 50.30 | 13.59 | 3.70 | 50.30   | 13.59 | 3.70 |
|       | 20 | 128.68  | 8.80  | 14.62 | 110.30        | 9.24  | 11.94 | 83.28 | 9.69  | 8.60  | 55.15 | 10.27 | 5.37 | 45.42 | 11.02 | 4.12 | 45.42   | 11.02 | 4.12 |
|       | 30 | 111.40  | 6.51  | 17.11 | 103.44        | 7.41  | 13.96 | 78.10 | 7.77  | 10.05 | 51.72 | 8.59  | 6.02 | 43.52 | 9.00  | 4.84 | 43.52   | 9.00  | 4.84 |
|       | 35 | 96.58   | 4.28  | 22.56 | 96.58         | 6.42  | 15.04 | 72.92 | 6.93  | 10.53 | 48.29 | 7.69  | 6.28 | 39.90 | 8.10  | 4.93 | 39.90   | 8.10  | 4.93 |
|       | 40 | 94.72   | 4.00  | 23.69 | 85.46         | 5.20  | 16.45 | 64.52 | 5.45  | 11.84 | 42.73 | 5.77  | 7.40 | 37.42 | 7.02  | 5.33 | 37.42   | 7.02  | 5.33 |
|       | 45 | 79.46   | 3.24  | 24.55 | 69.70         | 4.17  | 16.70 | 52.62 | 4.38  | 12.03 | 37.64 | 4.64  | 8.12 | 30.42 | 5.05  | 6.02 | 30.42   | 5.05  | 6.02 |