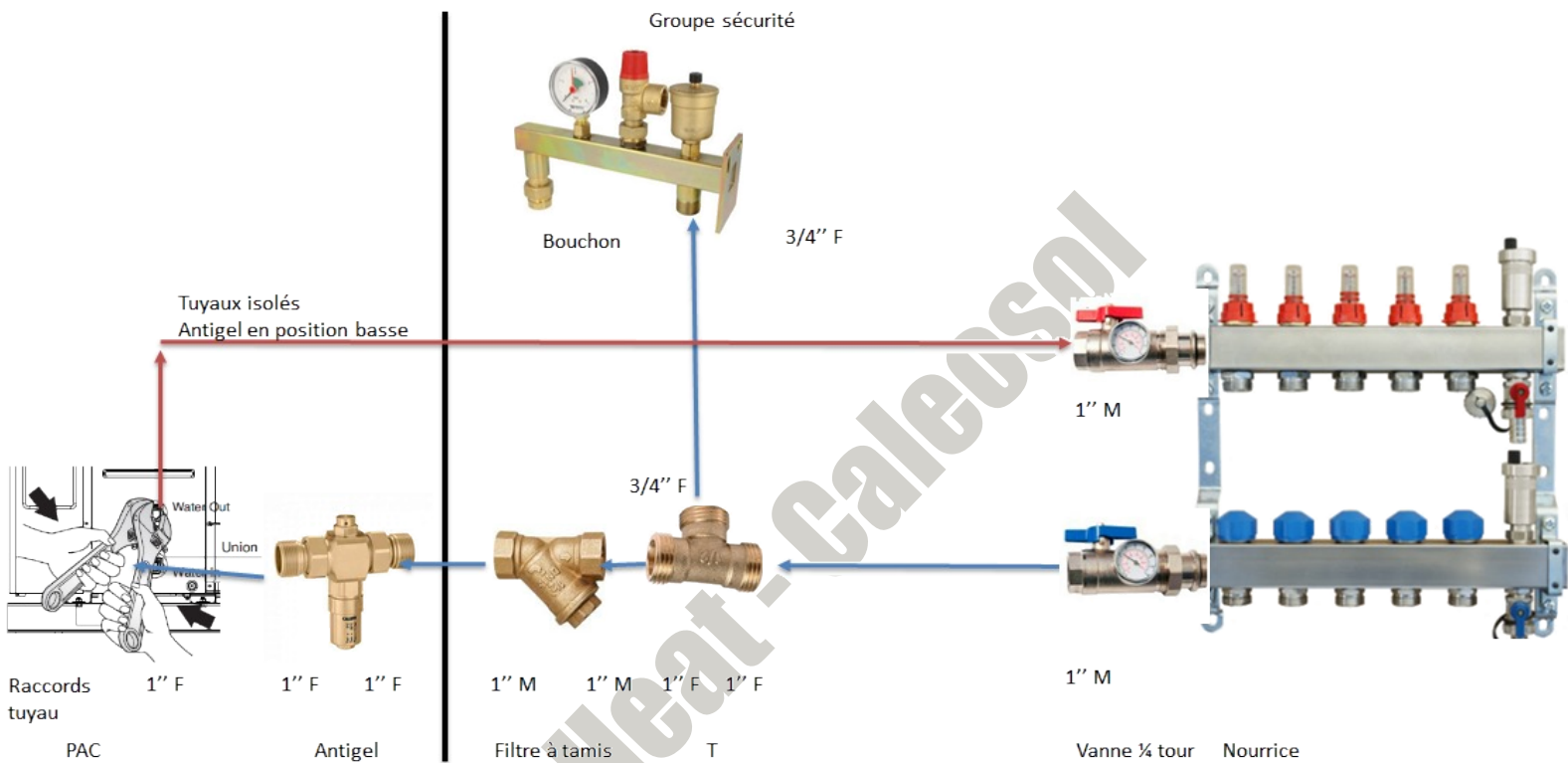
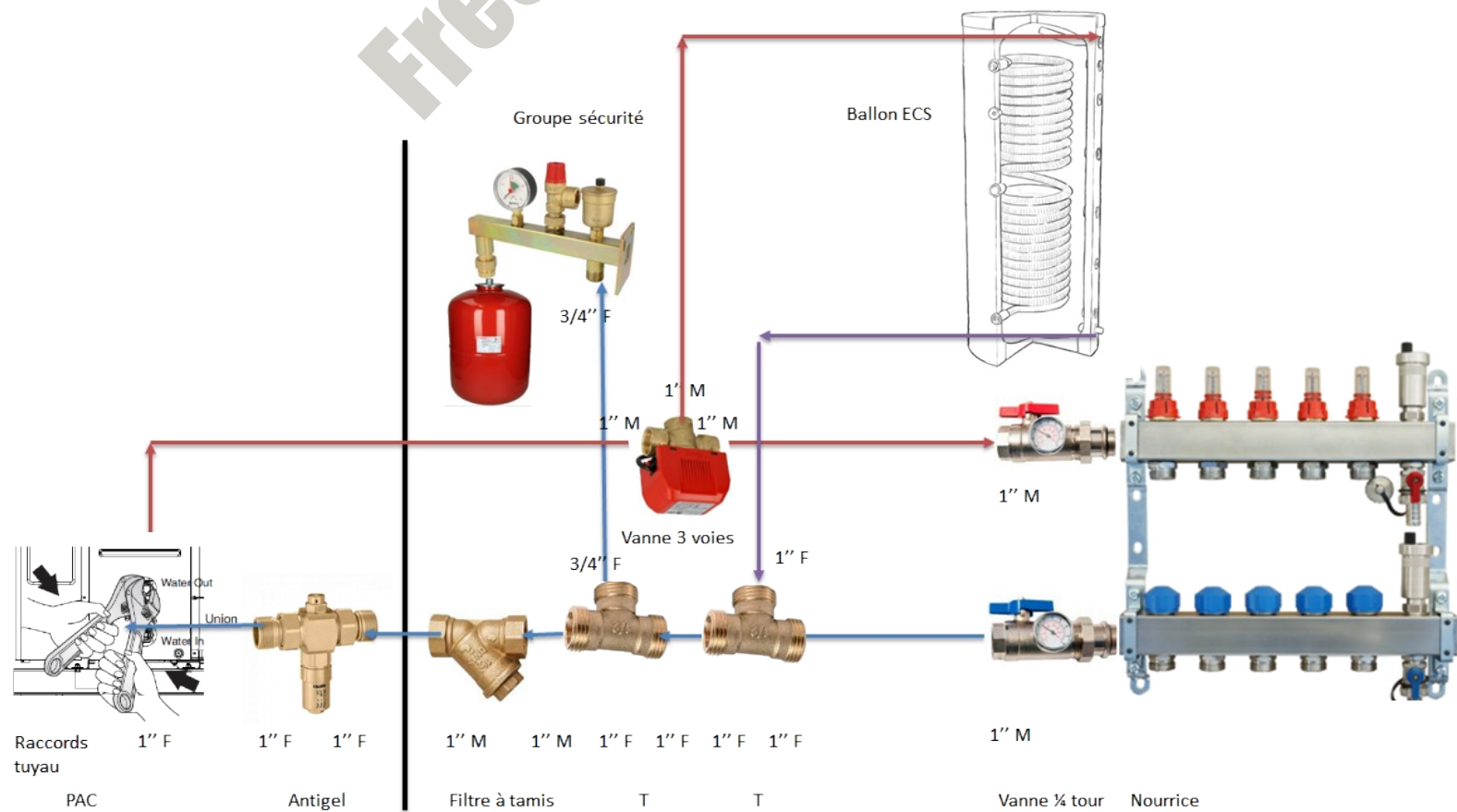


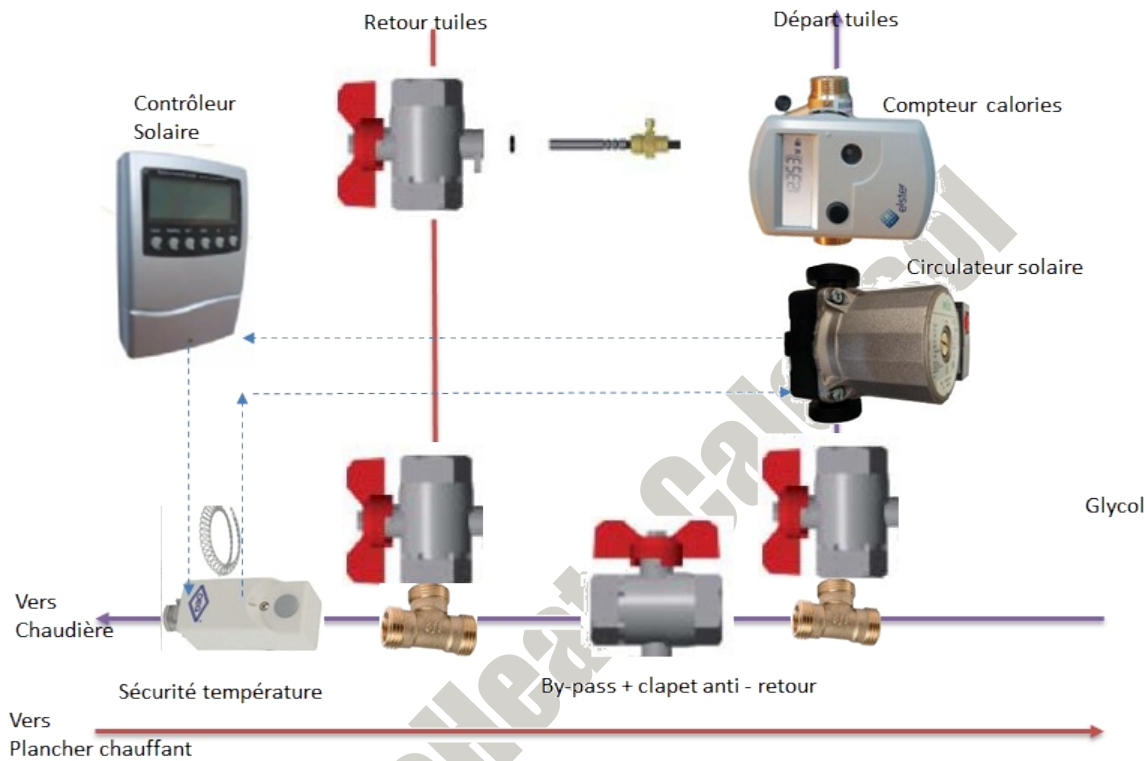
Chauffage seul



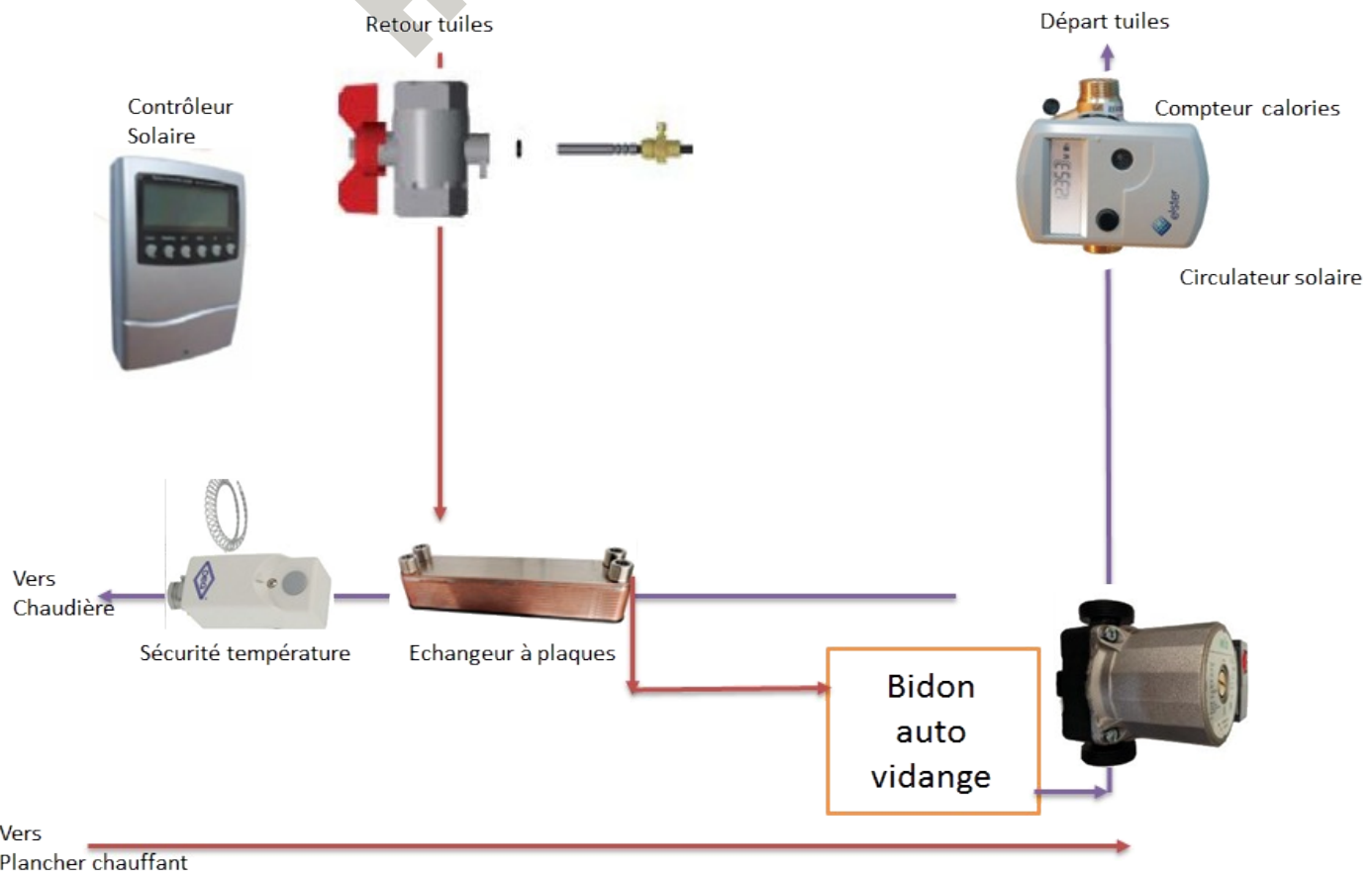
Chauffage et ECS - mode eau (sans glycol)



Ajout solaire direct en mode tout glycol sur la ligne de retour (non compatible avec schéma chauffage eau)



Ajout solaire direct en mode eau y compris chauffage



Model: AHBW036H0 [HM031M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 2.02 | 1.15 | 1.86 | 1.13 | 1.63 | 1.17 | 1.56 | 1.09 | | | | |
| -15°C DB | 2.52 | 1.12 | 2.33 | 1.10 | 2.04 | 1.14 | 1.95 | 1.12 | 1.89 | 1.20 | | |
| -7°C DB | 2.57 | 0.94 | 2.45 | 0.95 | 2.24 | 1.02 | 2.17 | 1.04 | 2.05 | 1.06 | 1.97 | 1.13 |
| -2°C DB | 2.60 | 0.73 | 2.52 | 0.77 | 2.36 | 0.89 | 2.31 | 0.90 | 2.15 | 0.98 | 2.07 | 1.00 |
| *2°C DB | 2.64 | 0.75 | 2.55 | 0.80 | 2.39 | 0.88 | 2.34 | 0.89 | 2.18 | 0.93 | 2.09 | 0.94 |
| 7°C DB | 3.10 | 0.69 | 3.00 | 0.73 | 2.81 | 0.84 | 2.75 | 0.85 | 2.56 | 0.92 | 2.46 | 0.94 |
| 10°C DB | 3.27 | 0.72 | 3.24 | 0.77 | 3.09 | 0.82 | 3.04 | 0.87 | 2.70 | 0.90 | 2.49 | 0.91 |
| 15°C DB | 3.45 | 0.64 | 3.39 | 0.64 | 3.24 | 0.73 | 3.15 | 0.81 | 2.89 | 0.91 | 2.33 | 0.81 |
| 18°C DB | 3.55 | 0.66 | 3.50 | 0.67 | 3.34 | 0.75 | 3.21 | 0.82 | 3.00 | 0.93 | 2.24 | 0.75 |

Model: AHBW056A0 [HM051M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 3.36 | 1.78 | 3.10 | 1.76 | 2.73 | 1.83 | 2.60 | 1.70 | | | | |
| -15°C DB | 4.20 | 1.74 | 3.88 | 1.72 | 3.41 | 1.78 | 3.25 | 1.74 | 3.15 | 1.88 | | |
| -7°C DB | 4.28 | 1.46 | 4.07 | 1.48 | 3.74 | 1.59 | 3.62 | 1.62 | 3.42 | 1.65 | 3.28 | 1.69 |
| -2°C DB | 4.33 | 1.14 | 4.19 | 1.20 | 3.94 | 1.40 | 3.85 | 1.41 | 3.59 | 1.52 | 3.44 | 1.56 |
| *2°C DB | 4.39 | 1.29 | 4.24 | 1.33 | 3.99 | 1.36 | 3.89 | 1.48 | 3.63 | 1.46 | 3.49 | 1.53 |
| 7°C DB | 5.16 | 1.08 | 4.99 | 1.13 | 4.69 | 1.32 | 4.58 | 1.33 | 4.27 | 1.43 | 4.10 | 1.47 |
| 10°C DB | 5.45 | 1.12 | 5.39 | 1.20 | 5.15 | 1.28 | 5.07 | 1.36 | 4.51 | 1.41 | 4.15 | 1.42 |
| 15°C DB | 5.75 | 0.99 | 5.65 | 1.00 | 5.40 | 1.14 | 5.24 | 1.26 | 4.81 | 1.42 | 3.89 | 1.27 |
| 18°C DB | 5.91 | 1.04 | 5.83 | 1.05 | 5.57 | 1.18 | 5.35 | 1.29 | 5.00 | 1.45 | 3.73 | 1.18 |

Model: AHBW076A0 [HM071M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 4.70 | 2.55 | 4.34 | 2.52 | 3.82 | 2.61 | 3.64 | 2.43 | | | | |
| -15°C DB | 5.87 | 2.49 | 5.43 | 2.46 | 4.77 | 2.54 | 4.55 | 2.49 | 4.40 | 2.68 | | |
| -7°C DB | 6.00 | 2.08 | 5.71 | 2.12 | 5.23 | 2.28 | 5.06 | 2.31 | 4.78 | 2.35 | 4.58 | 2.43 |
| -2°C DB | 6.07 | 1.63 | 5.88 | 1.73 | 5.51 | 1.99 | 5.38 | 2.01 | 5.02 | 2.16 | 4.81 | 2.24 |
| *2°C DB | 6.15 | 1.86 | 5.95 | 1.92 | 5.58 | 1.97 | 5.23 | 2.08 | 5.08 | 2.15 | 4.71 | 2.19 |
| 7°C DB | 7.23 | 1.54 | 7.00 | 1.63 | 6.56 | 1.88 | 6.41 | 1.90 | 5.98 | 2.04 | 5.73 | 2.11 |
| 10°C DB | 7.63 | 1.61 | 7.55 | 1.72 | 7.21 | 1.84 | 7.09 | 1.94 | 6.31 | 2.02 | 5.81 | 2.04 |
| 15°C DB | 8.04 | 1.42 | 7.91 | 1.42 | 7.56 | 1.63 | 7.34 | 1.80 | 6.74 | 2.02 | 5.44 | 1.82 |
| 18°C DB | 8.28 | 1.48 | 8.16 | 1.50 | 7.80 | 1.68 | 7.49 | 1.84 | 7.00 | 2.08 | 5.22 | 1.68 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

Model: AHBW096A0 [HM091M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 6.04 | 3.28 | 5.58 | 3.23 | 4.90 | 3.35 | 4.68 | 3.11 | | | | |
| -15°C DB | 7.55 | 3.20 | 6.98 | 3.15 | 6.13 | 3.27 | 5.85 | 3.19 | 5.66 | 3.44 | | |
| -7°C DB | 7.71 | 2.74 | 7.34 | 2.72 | 6.72 | 3.03 | 6.51 | 2.96 | 6.15 | 3.01 | 5.90 | 3.11 |
| -2°C DB | 7.80 | 2.10 | 7.56 | 2.33 | 7.08 | 2.57 | 6.93 | 2.59 | 6.46 | 2.78 | 6.19 | 2.86 |
| *2°C DB | 7.65 | 2.43 | 7.20 | 2.45 | 6.73 | 2.54 | 6.43 | 2.75 | 6.18 | 2.85 | 6.03 | 3.04 |
| 7°C DB | 9.29 | 1.98 | 9.00 | 2.20 | 8.43 | 2.42 | 8.25 | 2.44 | 7.69 | 2.62 | 7.37 | 2.70 |
| 10°C DB | 9.81 | 2.06 | 9.71 | 2.20 | 9.27 | 2.35 | 9.12 | 2.49 | 8.11 | 2.58 | 7.47 | 2.61 |
| 15°C DB | 10.34 | 1.82 | 10.17 | 1.82 | 9.71 | 2.09 | 9.44 | 2.31 | 8.67 | 2.59 | 7.00 | 2.33 |
| 18°C DB | 10.64 | 1.85 | 10.49 | 1.92 | 10.03 | 2.16 | 9.63 | 2.35 | 9.00 | 2.66 | 6.71 | 2.16 |

Model: AHBW126A0 [HM121M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 8.10 | 4.33 | 7.52 | 4.21 | 6.65 | 4.47 | 6.36 | 4.14 | | | | |
| -15°C DB | 10.13 | 4.22 | 9.40 | 4.10 | 8.31 | 4.36 | 7.95 | 4.24 | 7.60 | 4.75 | | |
| -7°C DB | 10.33 | 3.53 | 9.80 | 3.55 | 9.01 | 3.85 | 8.73 | 4.02 | 8.23 | 3.99 | 7.87 | 4.19 |
| -2°C DB | 10.45 | 2.79 | 10.05 | 2.80 | 9.45 | 3.35 | 9.21 | 3.33 | 8.63 | 3.57 | 8.25 | 3.75 |
| *2°C DB | 10.61 | 2.91 | 10.20 | 3.04 | 9.59 | 3.34 | 9.35 | 3.33 | 8.76 | 3.51 | 8.37 | 3.55 |
| 7°C DB | 12.48 | 2.66 | 12.00 | 2.67 | 11.28 | 3.20 | 11.00 | 3.18 | 10.30 | 3.41 | 9.85 | 3.58 |
| 10°C DB | 13.49 | 2.81 | 13.32 | 2.99 | 12.62 | 3.12 | 12.38 | 3.37 | 11.19 | 3.69 | 10.10 | 3.50 |
| 15°C DB | 14.20 | 2.50 | 14.06 | 2.53 | 13.34 | 2.87 | 12.79 | 3.16 | 11.64 | 3.50 | 9.40 | 3.13 |
| 18°C DB | 14.61 | 2.68 | 14.51 | 2.65 | 13.77 | 2.94 | 13.03 | 3.22 | 11.92 | 3.55 | 8.98 | 2.90 |

Model: AHBW146A0 [HM141M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 9.40 | 5.10 | 8.69 | 5.03 | 7.63 | 5.21 | 7.28 | 4.85 | | | | |
| -15°C DB | 11.75 | 4.97 | 10.86 | 4.90 | 9.54 | 5.08 | 9.10 | 4.97 | 8.81 | 5.34 | | |
| -7°C DB | 12.20 | 3.90 | 11.61 | 4.30 | 10.64 | 4.61 | 10.31 | 4.70 | 9.75 | 4.77 | 9.34 | 4.91 |
| -2°C DB | 12.48 | 3.36 | 12.08 | 3.44 | 11.32 | 4.11 | 11.07 | 4.14 | 10.33 | 4.45 | 9.90 | 4.58 |
| *2°C DB | 12.58 | 3.45 | 12.18 | 3.67 | 11.41 | 4.05 | 11.16 | 4.06 | 10.41 | 4.26 | 9.98 | 4.26 |
| 7°C DB | 14.46 | 3.08 | 14.00 | 3.15 | 13.12 | 3.77 | 12.83 | 3.80 | 11.97 | 4.08 | 11.47 | 4.20 |
| 10°C DB | 15.11 | 3.17 | 14.94 | 3.39 | 14.27 | 3.63 | 14.05 | 3.83 | 12.49 | 3.97 | 11.62 | 4.06 |
| 15°C DB | 15.93 | 2.81 | 15.65 | 2.81 | 14.96 | 3.21 | 14.53 | 3.56 | 13.35 | 4.00 | 10.89 | 3.62 |
| 18°C DB | 16.38 | 2.85 | 16.15 | 2.95 | 15.44 | 3.31 | 14.83 | 3.63 | 13.87 | 4.10 | 10.44 | 3.35 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

Model: AHBW166A0 [HM161M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 10.68 | 5.90 | 9.84 | 5.88 | 8.58 | 5.86 | 8.16 | 5.56 | | | | |
| -15°C DB | 13.35 | 5.75 | 12.30 | 5.73 | 10.73 | 5.71 | 10.20 | 5.70 | 10.00 | 5.88 | | |
| -7°C DB | 13.62 | 5.10 | 13.01 | 4.93 | 11.86 | 5.04 | 11.48 | 5.16 | 10.89 | 5.38 | 10.46 | 5.43 |
| -2°C DB | 13.79 | 3.69 | 13.46 | 4.03 | 12.57 | 4.54 | 12.28 | 4.71 | 11.45 | 5.05 | 11.00 | 5.10 |
| *2°C DB | 13.94 | 3.99 | 13.50 | 4.23 | 12.71 | 4.56 | 12.41 | 4.65 | 11.58 | 4.83 | 11.12 | 4.78 |
| 7°C DB | 16.40 | 3.49 | 16.00 | 3.81 | 14.95 | 4.29 | 14.60 | 4.45 | 13.62 | 4.77 | 13.08 | 4.82 |
| 10°C DB | 17.08 | 3.62 | 16.93 | 3.87 | 16.29 | 4.25 | 16.08 | 4.38 | 14.07 | 4.69 | 13.10 | 4.62 |
| 15°C DB | 18.03 | 3.18 | 17.59 | 3.16 | 16.94 | 3.64 | 16.67 | 4.05 | 15.44 | 4.60 | 12.35 | 4.11 |
| 18°C DB | 18.55 | 3.40 | 18.15 | 3.32 | 17.49 | 3.77 | 17.02 | 4.14 | 16.27 | 4.77 | 11.90 | 3.80 |

Model: AHBW128A0 [HM123M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 8.10 | 4.33 | 7.52 | 4.21 | 6.74 | 4.55 | 6.43 | 4.25 | | | | |
| -15°C DB | 10.13 | 4.22 | 9.40 | 4.10 | 8.42 | 4.44 | 8.04 | 4.36 | 7.66 | 4.68 | | |
| -7°C DB | 10.35 | 3.54 | 9.82 | 3.56 | 9.18 | 3.97 | 8.92 | 4.11 | 8.38 | 4.10 | 7.92 | 4.34 |
| -2°C DB | 10.48 | 2.82 | 10.08 | 2.83 | 9.65 | 3.47 | 9.48 | 3.51 | 8.84 | 3.75 | 8.35 | 3.86 |
| *2°C DB | 10.61 | 2.91 | 10.20 | 3.04 | 9.77 | 3.45 | 9.59 | 3.48 | 8.94 | 3.65 | 8.45 | 3.60 |
| 7°C DB | 12.48 | 2.66 | 12.00 | 2.67 | 11.49 | 3.27 | 11.28 | 3.31 | 10.52 | 3.54 | 9.94 | 3.64 |
| 10°C DB | 13.49 | 2.81 | 13.32 | 2.99 | 12.63 | 3.22 | 12.43 | 3.41 | 11.24 | 3.61 | 10.10 | 3.53 |
| 15°C DB | 14.20 | 2.50 | 14.06 | 2.53 | 13.18 | 2.84 | 12.77 | 3.14 | 11.70 | 3.51 | 9.45 | 3.15 |
| 18°C DB | 14.61 | 2.68 | 14.51 | 2.65 | 13.61 | 2.92 | 13.02 | 3.20 | 12.11 | 3.59 | 9.05 | 2.91 |

Model: AHBW148A0 [HM143M]

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 9.40 | 5.10 | 8.69 | 5.03 | 7.79 | 5.30 | 7.43 | 5.00 | | | | |
| -15°C DB | 11.75 | 4.97 | 10.86 | 4.90 | 9.74 | 5.17 | 9.29 | 5.12 | 8.82 | 5.26 | | |
| -7°C DB | 11.99 | 3.84 | 11.41 | 4.22 | 10.66 | 4.69 | 10.38 | 4.77 | 9.73 | 4.78 | 9.09 | 5.02 |
| -2°C DB | 12.15 | 3.26 | 11.76 | 3.34 | 11.23 | 4.05 | 11.05 | 4.16 | 10.31 | 4.45 | 9.63 | 4.47 |
| *2°C DB | 12.29 | 3.37 | 11.90 | 3.58 | 11.36 | 4.05 | 11.19 | 4.14 | 10.43 | 4.32 | 9.74 | 4.18 |
| 7°C DB | 14.46 | 3.08 | 14.00 | 3.15 | 13.37 | 3.82 | 13.16 | 3.92 | 12.27 | 4.20 | 11.46 | 4.22 |
| 10°C DB | 15.11 | 3.17 | 14.94 | 3.39 | 14.46 | 3.79 | 14.26 | 3.95 | 12.91 | 4.04 | 11.55 | 4.06 |
| 15°C DB | 15.93 | 2.81 | 15.65 | 2.81 | 14.89 | 3.21 | 14.56 | 3.56 | 13.44 | 4.02 | 10.85 | 3.62 |
| 18°C DB | 16.38 | 2.85 | 16.15 | 2.95 | 15.38 | 3.31 | 14.87 | 3.64 | 14.06 | 4.14 | 10.43 | 3.35 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

| Température extérieure | LWT 30°C | | LWT 35°C | | LWT 40°C | | LWT 45°C | | LWT 50°C | | LWT 55°C | |
|---------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| -20°C DB | 11.27 | 6.11 | 10.38 | 6.13 | 9.10 | 6.16 | 8.66 | 5.87 | | | | |
| -15°C DB | 14.09 | 5.96 | 12.98 | 5.98 | 11.37 | 6.01 | 10.83 | 6.02 | 10.10 | 5.92 | | |
| -7°C DB | 13.90 | 5.31 | 13.26 | 5.29 | 12.42 | 5.54 | 12.13 | 5.65 | 11.31 | 5.59 | 10.31 | 5.71 |
| -2°C DB | 13.78 | 3.93 | 13.44 | 4.04 | 13.07 | 4.69 | 12.94 | 4.90 | 12.07 | 5.25 | 11.00 | 5.13 |
| *2°C DB | 13.94 | 3.98 | 13.60 | 4.25 | 13.23 | 4.75 | 13.10 | 4.92 | 12.21 | 5.12 | 11.13 | 4.80 |
| 7°C DB | 16.40 | 3.71 | 16.00 | 3.81 | 15.56 | 4.42 | 15.41 | 4.62 | 14.37 | 4.95 | 13.09 | 4.84 |
| 10°C DB | 17.49 | 3.83 | 17.34 | 4.10 | 16.73 | 4.51 | 16.53 | 4.65 | 15.23 | 4.69 | 13.11 | 4.64 |
| 15°C DB | 18.05 | 3.19 | 17.61 | 3.18 | 16.95 | 3.66 | 16.68 | 4.07 | 15.45 | 4.62 | 12.36 | 4.13 |
| 18°C DB | 18.57 | 3.42 | 18.17 | 3.34 | 17.50 | 3.79 | 17.04 | 4.16 | 16.28 | 4.79 | 11.91 | 3.82 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

Model: AHBW056A0 [HM051M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 3.65 | 0.85 | 4.11 | 0.91 | 4.57 | 0.97 | 4.96 | 1.04 | 5.38 | 1.10 | 5.76 | 1.16 | | |
| 30°C DB | 4.15 | 1.32 | 4.35 | 1.34 | 4.70 | 1.45 | 5.13 | 1.39 | 5.24 | 1.37 | 5.47 | 1.35 | | |
| 35°C DB | 3.82 | 1.42 | 4.16 | 1.47 | 4.48 | 1.50 | 4.85 | 1.51 | 4.99 | 1.38 | 5.17 | 1.49 | 5.37 | 1.54 |
| 40°C DB | 3.64 | 1.58 | 3.86 | 1.62 | 4.24 | 1.66 | 4.50 | 1.68 | 4.59 | 1.54 | 4.76 | 1.57 | 4.94 | 1.60 |
| 45°C DB | 3.07 | 1.70 | 3.40 | 1.72 | 3.74 | 1.76 | 4.06 | 1.78 | 4.40 | 1.81 | 4.54 | 1.79 | 4.68 | 1.77 |

Model: AHBW076A0 [HM071M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 5.11 | 1.22 | 5.76 | 1.31 | 6.40 | 1.40 | 6.95 | 1.49 | 7.53 | 1.58 | 8.06 | 1.67 | | |
| 30°C DB | 5.80 | 1.90 | 6.09 | 1.93 | 6.58 | 2.08 | 7.18 | 2.00 | 7.34 | 1.97 | 7.65 | 1.95 | | |
| 35°C DB | 5.34 | 2.05 | 5.83 | 2.11 | 6.28 | 2.16 | 6.80 | 2.17 | 7.00 | 2.00 | 7.23 | 2.14 | 7.51 | 2.22 |
| 40°C DB | 5.09 | 2.28 | 5.40 | 2.33 | 5.93 | 2.39 | 6.30 | 2.42 | 6.42 | 2.21 | 6.66 | 2.25 | 6.92 | 2.30 |
| 45°C DB | 4.29 | 2.44 | 4.77 | 2.48 | 5.24 | 2.53 | 5.68 | 2.56 | 6.15 | 2.61 | 6.35 | 2.57 | 6.55 | 2.54 |

Model: AHBW096A0 [HM091M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 6.57 | 1.62 | 7.40 | 1.74 | 8.23 | 1.86 | 8.94 | 1.98 | 9.68 | 2.10 | 10.37 | 2.21 | | |
| 30°C DB | 7.46 | 2.52 | 7.83 | 2.55 | 8.46 | 2.76 | 9.24 | 2.65 | 9.43 | 2.62 | 9.84 | 2.58 | | |
| 35°C DB | 6.87 | 2.71 | 7.50 | 2.80 | 8.07 | 2.86 | 8.74 | 2.88 | 9.00 | 2.65 | 9.30 | 2.83 | 9.66 | 2.94 |
| 40°C DB | 6.54 | 3.02 | 6.94 | 3.09 | 7.63 | 3.17 | 8.10 | 3.21 | 8.25 | 2.93 | 8.56 | 2.99 | 8.90 | 3.04 |
| 45°C DB | 5.52 | 3.23 | 6.13 | 3.29 | 6.74 | 3.35 | 7.30 | 3.40 | 7.91 | 3.45 | 8.17 | 3.41 | 8.42 | 3.37 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

Model: AHBW126A0 [HM121M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 10.59 | 2.44 | 11.92 | 2.62 | 13.26 | 2.81 | 14.40 | 2.98 | 15.60 | 3.16 | 16.70 | 3.34 | | |
| 30°C DB | 12.02 | 3.80 | 12.61 | 3.85 | 13.64 | 4.17 | 14.88 | 4.00 | 15.20 | 3.95 | 15.85 | 3.89 | | |
| 35°C DB | 11.07 | 4.10 | 12.08 | 4.23 | 13.00 | 4.31 | 14.08 | 4.34 | 14.50 | 4.00 | 14.98 | 4.27 | 15.57 | 4.43 |
| 40°C DB | 10.54 | 4.55 | 11.18 | 4.66 | 12.29 | 4.79 | 13.05 | 4.85 | 13.30 | 4.42 | 13.79 | 4.51 | 14.34 | 4.59 |
| 45°C DB | 8.89 | 4.88 | 9.87 | 4.96 | 10.86 | 5.05 | 11.76 | 5.13 | 12.75 | 5.21 | 13.16 | 5.15 | 13.57 | 5.08 |

Model: AHBW146A0 [HM141M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 11.32 | 2.86 | 12.74 | 3.07 | 14.17 | 3.29 | 15.39 | 3.50 | 16.68 | 3.71 | 17.85 | 3.92 | | |
| 30°C DB | 12.85 | 4.45 | 13.48 | 4.52 | 14.58 | 4.88 | 15.91 | 4.69 | 16.25 | 4.63 | 16.95 | 4.56 | | |
| 35°C DB | 11.83 | 4.80 | 12.91 | 4.95 | 13.90 | 5.05 | 15.05 | 5.09 | 15.50 | 4.69 | 16.02 | 5.01 | 16.64 | 5.20 |
| 40°C DB | 11.27 | 5.34 | 11.95 | 5.46 | 13.14 | 5.61 | 13.95 | 5.69 | 14.21 | 5.18 | 14.75 | 5.28 | 15.32 | 5.39 |
| 45°C DB | 9.51 | 5.72 | 10.55 | 5.82 | 11.61 | 5.92 | 12.57 | 6.01 | 13.63 | 6.11 | 14.07 | 6.03 | 14.51 | 5.96 |

Model: AHBW166A0 [HM161M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 11.76 | 3.09 | 13.24 | 3.32 | 14.72 | 3.56 | 15.99 | 3.78 | 17.32 | 4.01 | 18.54 | 4.23 | | |
| 30°C DB | 13.35 | 4.81 | 14.01 | 4.88 | 15.14 | 5.28 | 16.52 | 5.07 | 16.88 | 5.01 | 17.60 | 4.93 | | |
| 35°C DB | 12.29 | 5.19 | 13.41 | 5.36 | 14.44 | 5.46 | 15.63 | 5.51 | 16.10 | 5.07 | 16.64 | 5.42 | 17.28 | 5.62 |
| 40°C DB | 11.71 | 5.77 | 12.42 | 5.91 | 13.64 | 6.07 | 14.49 | 6.15 | 14.77 | 5.60 | 15.32 | 5.71 | 15.92 | 5.82 |
| 45°C DB | 9.87 | 6.19 | 10.96 | 6.29 | 12.06 | 6.40 | 13.06 | 6.50 | 14.15 | 6.61 | 14.61 | 6.52 | 15.07 | 6.44 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

Model: AHBW128A0 [HM123M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 12.80 | 3.49 | 13.98 | 3.55 | 15.14 | 3.62 | 15.95 | 3.66 | 15.60 | 3.16 | 16.70 | 3.34 | | |
| 30°C DB | 12.33 | 4.00 | 13.39 | 4.06 | 14.45 | 4.15 | 15.16 | 4.20 | 15.20 | 3.95 | 15.85 | 3.89 | | |
| 35°C DB | 11.94 | 4.46 | 13.02 | 4.56 | 14.10 | 4.66 | 14.33 | 4.56 | 14.50 | 4.00 | 14.98 | 4.27 | 15.57 | 4.43 |
| 40°C DB | 11.45 | 4.72 | 12.07 | 4.91 | 13.34 | 5.06 | 13.70 | 5.04 | 13.30 | 4.42 | 13.79 | 4.51 | 14.34 | 4.59 |
| 45°C DB | 8.59 | 4.55 | 9.92 | 4.65 | 10.24 | 4.18 | 10.46 | 3.87 | 12.75 | 5.21 | 13.16 | 5.15 | 13.57 | 5.08 |

Model: AHBW148A0 [HM143M]

| Outdoor Temperature | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|---------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 13.40 | 3.97 | 14.64 | 4.04 | 15.88 | 4.12 | 16.20 | 4.05 | 16.68 | 3.71 | 17.85 | 3.92 | | |
| 30°C DB | 12.70 | 4.44 | 13.80 | 4.51 | 14.89 | 4.60 | 15.62 | 4.67 | 16.25 | 4.63 | 16.95 | 4.56 | | |
| 35°C DB | 12.30 | 4.95 | 13.23 | 5.00 | 14.15 | 5.05 | 14.77 | 5.06 | 15.50 | 4.69 | 16.02 | 5.01 | 16.64 | 5.20 |
| 40°C DB | 11.79 | 5.24 | 12.26 | 5.39 | 13.39 | 5.49 | 13.71 | 5.54 | 14.21 | 5.18 | 14.75 | 5.28 | 15.32 | 5.39 |
| 45°C DB | 8.59 | 4.55 | 9.92 | 4.65 | 10.24 | 4.18 | 10.46 | 3.87 | 13.63 | 6.11 | 14.07 | 6.03 | 14.51 | 5.96 |

Model: AHBW168A0 [HM163M]

| Température extérieure | LWT 7°C | | LWT 10°C | | LWT 13°C | | LWT 15°C | | LWT 18°C | | LWT 20°C | | LWT 22°C | |
|------------------------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 20°C DB | 11.23 | 2.92 | 13.43 | 3.57 | 15.56 | 4.22 | 16.98 | 4.65 | 18.66 | 4.85 | 19.78 | 4.98 | | |
| 30°C DB | 13.75 | 4.83 | 14.94 | 4.91 | 16.12 | 5.01 | 16.92 | 5.08 | 18.05 | 5.17 | 18.81 | 5.23 | | |
| 35°C DB | 12.50 | 5.17 | 14.26 | 5.36 | 15.35 | 5.48 | 15.72 | 5.33 | 16.10 | 5.07 | 17.72 | 5.62 | 18.33 | 5.67 |
| 40°C DB | 11.99 | 5.64 | 13.22 | 5.77 | 14.52 | 5.95 | 15.04 | 6.02 | 15.53 | 5.57 | 16.18 | 5.64 | 16.83 | 5.71 |
| 45°C DB | 8.59 | 4.55 | 9.92 | 4.65 | 10.24 | 4.18 | 10.46 | 3.87 | 11.20 | 3.90 | 12.15 | 3.93 | 12.82 | 3.95 |

LWT : Température de départ

TC: Puissance nette disponible à la chauffe prenant en compte la puissance nécessaire pour le dégivrage

PI: puissance en kW

Notice: EN-14511

Spécifications

| Nominal Capacity and Nominal Input | | | AHBW036H0 [HM031M] |
|------------------------------------|---------|-----|--------------------|
| *1 Capacity | Cooling | kW | - |
| | Heating | kW | 3.00 |
| *1 Power Input | Cooling | kW | - |
| | Heating | kW | 0.73 |
| EER | Cooling | W/W | - |
| COP | Heating | W/W | 4.10 |

| Technical Specifications | | | | AHBW036H0 [HM031M] | | |
|-----------------------------|---------------------------------------|--------------------------------------|------------------------------|--------------------|---------------------------------------|---------|
| Water Side | Operation Range | Cooling | For Fan Coil Unit | Min. ~ Max. | °C DB | - |
| | | | For under floor | Min. ~ Max. | °C DB | - |
| | | Heating | For Fan Coil Unit / Radiator | Min. ~ Max. | °C DB | 20 ~ 57 |
| | | | For under floor | Min. ~ Max. | °C DB | 20 ~ 57 |
| | Water Pump | Type | | - | Canned type for hot water circulation | |
| | | Motor Type | | - | Inverter | |
| | | Steps of Pumping speed | | - | - | |
| | | Power input | Rated | W | 45 | |
| | | Water Flow Rate | Min. / Rated | l / min | 15.0 / 15.0 | |
| | Heat Exchanger | Type | | - | Brazed Plate HEX | |
| | | Quantity | | - | 1 | |
| | | Number of Plate | | EA | 18 | |
| | | Head Loss | Rated | kPa | 8.25 | |
| | | Water Flow Rate | Min | l / min | 15.0 | |
| | Expansion Vessel | System Water Volume | | Max | l | |
| | | Pre-pressure | | kPa | - | |
| | Piping Connections | Inlet | | mm | 25.4 (Female) | |
| | | Outlet | | mm | 25.4 (Female) | |
| Strainer | Mesh size | W x H | mm x mm | - | | |
| | Material | | - | - | | |
| Safety Valve | Pressure Limit | Upper Limit | bar | - | | |
| Devices for Water Circuit | | | | - | | |
| Refrigerant Side | Operation Range (Outdoor Temperature) | Cooling | Min. ~ Max. | °C DB | - | |
| | | Heating | Min. ~ Max. | °C DB | -20 ~ 30 | |
| | Compressor | Type | | - | Hermetic motor | |
| | | Model | | Model x No. | GKT141MBC | |
| | | Motor Type | | - | Brushless | |
| | | Motor Output | Rated | W x No. | 1,500 x 1 | |
| | Heat Exchanger | (Row x Column x Fins per inch) x No. | | - | (2 x 38 x 18) x 1 | |
| | Refrigerant | Type | | - | R410A | |
| | | Precharged Amount | | g(oz) | 750 (26.5) | |
| | Refrigerant Oil | Control | | - | Electronic Expansion Valve | |
| | | Type | | - | FVC68D | |
| | | Charged Volume | | cc x No. | 470 | |
| | Fan | Type | | - | Propeller | |
| | | Air Flow Rate | Rated | m³/min x No. | 32.0 x 1 | |
| | Fan Motor | Type | | - | BLDC | |
| | | Output | | W x No. | 124 x 1 | |
| | Sound Pressure Level | Cooling | Rated | dB(A) | - | |
| | | Heating | Rated | dB(A) | 47 | |
| Sound Power Level | Heating | Max. | dB(A) | 57 | | |
| Silent Sound Pressure Level | Heating | Rated | dB(A) | 43 | | |
| Silent Sound Power Level | Heating | Max. | dB(A) | 53 | | |
| Dimensions | Unit | W x H x D | mm | 950 x 834 x 330 | | |
| Weight | Unit | | kg | 61.0 | | |

| Electrical Specifications | | | | AHBW036H0 [HM031M] |
|---------------------------|--------------------|-------------------------------------|----------|--------------------|
| Outdoor Unit | Power Supply | | V, Ø, Hz | 220-240, 1, 50 |
| | Maximum | Cooling | A | - |
| | Running Current | Heating | A | 10.0 |
| | Wiring Connections | Power Supply Cable (included Earth) | | No x mm² |

Note :

- Capacities and power inputs are based on the following conditions:
*1 : Heating conditions - Inlet/Outlet Water Temperature 30°C/35°C; Outdoor Air Temperature 7°CDB/6°CWB
- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.
- This product contains Fluorinated Greenhouse Gases.

Spécifications

| Nominal Capacity and Nominal Input | | | AHBW056A0 [HM051M] | AHBW076A0 [HM071M] | AHBW096A0 [HM091M] |
|------------------------------------|---------|-----|--------------------|--------------------|--------------------|
| *1 Capacity | Cooling | kW | 4.99 | 7.00 | 9.00 |
| | Heating | kW | 4.99 | 7.00 | 9.00 |
| *1 Power Input | Cooling | kW | 1.38 | 2.00 | 2.65 |
| | Heating | kW | 1.13 | 1.63 | 2.20 |
| *1 EER | Cooling | W/W | 3.61 | 3.50 | 3.40 |
| *1 COP | Heating | W/W | 4.40 | 4.30 | 4.10 |

| Technical Specifications | | | | AHBW056A0 [HM051M] | AHBW076A0 [HM071M] | AHBW096A0 [HM091M] | | |
|-----------------------------|---------------------------------------|--------------------------------------|------------------------------|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------|
| Water Side | Operation Range | Cooling | For Fan Coil Unit | Min. ~ Max. | °C DB | 6 ~ 30 | 6 ~ 30 | 6 ~ 30 |
| | | | For under floor | Min. ~ Max. | °C DB | 16 ~ 30 | 16 ~ 30 | 16 ~ 30 |
| | | Heating | For Fan Coil Unit / Radiator | Min. ~ Max. | °C DB | 15 ~ 57 | 15 ~ 57 | 15 ~ 57 |
| | | | For under floor | Min. ~ Max. | °C DB | 15 ~ 57 | 15 ~ 57 | 15 ~ 57 |
| | Water Pump | Type | | - | Canned type for hot water circulation | Canned type for hot water circulation | Canned type for hot water circulation | |
| | | Motor Type | | - | Inverter | Inverter | Inverter | |
| | | Steps of Pumping speed | | - | - | - | - | |
| | | Power input | | Rated | W | 45 | 45 | 45 |
| | | Water Flow Rate | | Min. / Rated | l / min | 15.0 / 15.0 | 15.0 / 20.0 | 15.0 / 26.0 |
| | Heat Exchanger | Type | | - | Brazed Plate HEX | Brazed Plate HEX | Brazed Plate HEX | |
| | | Quantity | | - | 1 | 1 | 1 | |
| | | Number of Plate | | EA | 32 | 42 | 54 | |
| | | Head Loss | | Rated | kPa | 10.18 | 11.54 | 11.71 |
| | Expansion Vessel | Water Flow Rate | | Min. / Rated | l / min | 20.0 | 26.0 | |
| | | System Water Volume | | Max. | l | 200 | 200 | |
| | | Pre-pressure | | | kPa | 120 | 120 | 120 |
| Piping Connections | Inlet | | mm | 25.4 (Female) | 25.4 (Female) | 25.4 (Female) | | |
| | Outlet | | mm | 25.4 (Female) | 25.4 (Female) | 25.4 (Female) | | |
| Strainer | Mesh size | | W x H | mm x mm | 1 x 1 | 1 x 1 | | |
| | Material | | - | Stainless Steel | Stainless Steel | Stainless Steel | | |
| Safety Valve | Pressure Limit | | Upper Limit | bar | 3.0 | 3.0 | | |
| | Devices for Water Circuit | | - | Pressure gauge | Pressure gauge | Pressure gauge | | |
| Refrigerant Side | Operation Range (Outdoor Temperature) | Cooling | Min. ~ Max. | °C DB | 5 ~ 48 | 5 ~ 48 | 5 ~ 48 | |
| | | Heating | Min. ~ Max. | °C DB | -20 ~ 35 | -20 ~ 35 | -20 ~ 35 | |
| | Compressor | Type | | - | Hermetic motor | Hermetic motor | Hermetic motor | |
| | | Model | | Model x No. | GJT240MAA | GJT240MAA | GJT240MAA | |
| | | Motor Type | | - | Twin Rotary | Twin Rotary | Twin Rotary | |
| | | Motor Output | | Rated | W x No. | 2,100 x 1 | 2,100 x 1 | 2,100 x 1 |
| | Heat Exchanger | (Row x Column x Fins per inch) x No. | | - | (2 x 38 x 14) x 1 | (2 x 38 x 14) x 1 | (2 x 38 x 14) x 1 | |
| | | Type | | - | R410A | R410A | R410A | |
| | Refrigerant | Precharged Amount | | g(oz) | 1,200(42.3) | 1,450(51.1) | 1,600(56.4) | |
| | | Control | | - | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | |
| | Refrigerant Oil | Type | | - | FVC68D | FVC68D | FVC68D | |
| | | Charged Volume | | cc x No. | 900 | 900 | 900 | |
| | Fan | Type | | - | Propeller | Propeller | Propeller | |
| | | Air Flow Rate | | Rated | m³/min x No. | 50.0 x 1 | 60.0 x 1 | 60.0 x 1 |
| | Fan Motor | Type | | - | BLDC | BLDC | BLDC | |
| | | Output | | W x No. | 124 x 1 | 124 x 1 | 124 x 1 | |
| Sound Pressure Level | Cooling | Rated | dB(A) | 50 | 52 | 52 | | |
| | Heating | Rated | dB(A) | 51 | 52 | 52 | | |
| Sound Power Level | Heating | Max. | dB(A) | 63 | 65 | 67 | | |
| Silent Sound Pressure Level | Heating | Rated | dB(A) | 48 | 48 | 48 | | |
| Silent Sound Power Level | Heating | Max. | dB(A) | 58 | 58 | 58 | | |
| Dimensions | Unit | W x H x D | mm | 1,239 x 907 x 390 | 1,239 x 907 x 390 | 1,239 x 907 x 390 | | |
| Weight | Unit | | kg | 97.0 | 98.0 | 99.0 | | |

| Electrical Specifications | | | | AHBW056A0 [HM051M] | AHBW076A0 [HM071M] | AHBW096A0 [HM091M] |
|---------------------------|-------------------------------------|-------------------------------------|----------|--------------------|--------------------|--------------------|
| Outdoor Unit | Power Supply | | V, Ø, Hz | 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 |
| | Maximum | Cooling | A | 12.0 | 13.0 | 14.0 |
| | Running Current | Heating | A | 13.0 | 14.0 | 15.0 |
| Wiring Connections | Power Supply Cable (included Earth) | | No x mm² | 3 x 1.5 (H07RN-F) | 3 x 1.5 (H07RN-F) | 3 x 1.5 (H07RN-F) |
| Heater | Power Supply | | V, Ø, Hz | 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 |
| | Running current | | A | 19.5 | 19.5 | 19.5 |
| | Wiring connection | Power Supply Cable (included Earth) | | No x mm² | 3 x 2.5 (H07RN-F) | 3 x 2.5 (H07RN-F) |

Note :

- Capacities and power inputs are based on the following conditions:
 *1 : Cooling conditions - Inlet/Outlet Water Temperature 23°C/18°C;
 Outdoor Air Temperature 35°CDB/24°CWB
 Heating conditions - Inlet/Outlet Water Temperature 30°C/35°C;
 Outdoor Air Temperature 7°CDB/6°CWB

- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.
- This product contains Fluorinated Greenhouse Gases.

Spécifications

| Nominal Capacity and Nominal Input | | | AHBW126A0 [HM121M] | AHBW146A0 [HM141M] | AHBW166A0 [HM161M] |
|------------------------------------|---------|-----|--------------------|--------------------|--------------------|
| *1 Capacity | Cooling | kW | 14.50 | 15.50 | 16.10 |
| | Heating | kW | 12.00 | 14.00 | 16.00 |
| *1 Power Input | Cooling | kW | 4.00 | 4.69 | 5.07 |
| | Heating | kW | 2.67 | 3.15 | 3.81 |
| *1 EER | Cooling | W/W | 3.63 | 3.30 | 3.18 |
| *1 COP | Heating | W/W | 4.49 | 4.44 | 4.20 |

| Technical Specifications | | | | AHBW126A0 [HM121M] | AHBW146A0 [HM141M] | AHBW166A0 [HM161M] | | |
|-----------------------------|---------------------------------------|--------------------------------------|------------------------------|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|------------------|
| Water Side | Operation Range | Cooling | For Fan Coil Unit | Min. ~ Max. | °C DB | 6 ~ 30 | 6 ~ 30 | 6 ~ 30 |
| | | | For under floor | Min. ~ Max. | °C DB | 16 ~ 30 | 16 ~ 30 | 16 ~ 30 |
| | | Heating | For Fan Coil Unit / Radiator | Min. ~ Max. | °C DB | 15 ~ 57 | 15 ~ 57 | 15 ~ 57 |
| | | | For under floor | Min. ~ Max. | °C DB | 15 ~ 57 | 15 ~ 57 | 15 ~ 57 |
| | Water Pump | Type | | - | Canned type for hot water circulation | Canned type for hot water circulation | Canned type for hot water circulation | |
| | | Motor Type | | - | Inverter | Inverter | Inverter | |
| | | Steps of Pumping speed | | - | - | - | - | |
| | | Power input | Rated | W | 130 | 130 | 130 | |
| | Refrigerant Side | Water Flow Rate | Min. / Rated | l / min | 15.0 / 34.0 | 15.0 / 40.0 | 15.0 / 46.0 | |
| | | | | | Heat Exchanger | Type | - | Brazed Plate HEX |
| Heat Exchanger | | Quantity | | - | 1 | 1 | 1 | |
| | | Number of Plate | | EA | 76 | 76 | 76 | |
| | | Head Loss | Rated | kPa | 14.50 | 16.20 | 18.52 | |
| | | Water Flow Rate | Min | l / min | 34.0 | 40.0 | 46.0 | |
| Expansion Vessel | | System Water Volume | | Max | l | 200 | 200 | |
| | | Pre-pressure | | kPa | 120 | 120 | 120 | |
| Piping Connections | | Inlet | | mm | 25.4 (Female) | 25.4 (Female) | 25.4 (Female) | |
| | | Outlet | | mm | 25.4 (Female) | 25.4 (Female) | 25.4 (Female) | |
| Strainer | Mesh size | | W x H | mm x mm | 1 x 1 | 1 x 1 | | |
| | Material | | - | Stainless Steel | Stainless Steel | Stainless Steel | | |
| Safety Valve | Pressure Limit | | Upper Limit | bar | 3.0 | 3.0 | | |
| | Devices for Water Circuit | | - | Pressure gauge | Pressure gauge | Pressure gauge | | |
| Refrigerant Side | Operation Range (Outdoor Temperature) | Cooling | Min. ~ Max. | °C DB | 5 ~ 48 | 5 ~ 48 | 5 ~ 48 | |
| | | | | | Heating | Min. ~ Max. | °C DB | -20 ~ 35 |
| | Compressor | Type | | - | | | | Hermetic motor |
| | | Model | | Model x No. | GPT442MBA | GPT442MBA | GPT442MBA | |
| | | Motor Type | | - | Twin Rotary | Twin Rotary | Twin Rotary | |
| | | Motor Output | Rated | W x No. | 4,000 x 1 | 4,000 x 1 | 4,000 x 1 | |
| | Heat Exchanger | (Row x Column x Fins per inch) x No. | | - | (2 x 32 x 14) x 2 | (2 x 32 x 14) x 2 | (2 x 32 x 14) x 2 | |
| | | Type | | - | R410A | R410A | R410A | |
| | Refrigerant | Precharged Amount | | g(oz) | 2,200(77.6) | 2,200(77.6) | 2,200(77.6) | |
| | | Control | | - | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | |
| Refrigerant Oil | Type | | - | FVC68D | FVC68D | FVC68D | | |
| | Charged Volume | | cc x No. | 1,300 | 1,300 | 1,300 | | |
| Fan | Type | | - | Propeller | Propeller | Propeller | | |
| | Air Flow Rate | Rated | m³/min x No. | 60.0 x 2 | 60.0 x 2 | 60.0 x 2 | | |
| Fan Motor | Type | | - | BLDC | BLDC | BLDC | | |
| | Output | | W x No. | 124 x 2 | 124 x 2 | 124 x 2 | | |
| Sound Pressure Level | Cooling | Rated | dB(A) | 54 | 54 | 54 | | |
| | Heating | Rated | dB(A) | 53 | 53 | 53 | | |
| Sound Power Level | Heating | Max. | dB(A) | 68 | 68 | 68 | | |
| Silent Sound Pressure Level | Heating | Rated | dB(A) | 50 | 50 | 50 | | |
| Silent Sound Power Level | Heating | Max. | dB(A) | 61 | 61 | 61 | | |
| Dimensions | Unit | W x H x D | mm | 1,239 x 1,450 x 390 | 1,239 x 1,450 x 390 | 1,239 x 1,450 x 390 | | |
| Weight | Unit | | kg | 141.0 | 141.0 | 141.0 | | |

| Electrical Specifications | | | | AHBW126A0 [HM121M] | AHBW146A0 [HM141M] | AHBW166A0 [HM161M] |
|---------------------------|-------------------------------------|-------------------------------------|----------|--------------------|--------------------|--------------------|
| Outdoor Unit | Power Supply | | V, Ø, Hz | 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 |
| | Maximum | Cooling | A | 22.0 | 22.0 | 22.0 |
| | Running Current | Heating | A | 25.0 | 25.0 | 25.0 |
| Wiring Connections | Power Supply Cable (included Earth) | | No x mm² | 3 x 2.5 (H07RN-F) | 3 x 2.5 (H07RN-F) | 3 x 2.5 (H07RN-F) |
| Heater | Power Supply | | V, Ø, Hz | 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 |
| | Running current | | A | 29.0 | 29.0 | 29.0 |
| | Wiring connection | Power Supply Cable (included Earth) | | No x mm² | 3 x 4.0 (H07RN-F) | 3 x 4.0 (H07RN-F) |

Note :

- Capacities and power inputs are based on the following conditions:
 *1 : Cooling conditions - Inlet/Outlet Water Temperature 23°C/18°C;
 Outdoor Air Temperature 35°CDB/24°CWB
 Heating conditions - Inlet/Outlet Water Temperature 30°C/35°C;
 Outdoor Air Temperature 7°CDB/6°CWB

- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.
- This product contains Fluorinated Greenhouse Gases.

Spécifications

| Nominal Capacity and Nominal Input | | | AHBW128A0 [HM123M] | AHBW148A0 [HM143M] | AHBW168A0 [HM163M] |
|------------------------------------|---------|-----|--------------------|--------------------|--------------------|
| *1 Capacity | Cooling | kW | 14.50 | 15.50 | 16.10 |
| | Heating | kW | 12.00 | 14.00 | 16.00 |
| *1 Power Input | Cooling | kW | 4.00 | 4.69 | 5.07 |
| | Heating | kW | 2.67 | 3.15 | 3.81 |
| *1 EER | Cooling | W/W | 3.63 | 3.30 | 3.18 |
| *1 COP | Heating | W/W | 4.49 | 4.44 | 4.20 |

| Technical Specifications | | | | AHBW128A0 [HM123M] | AHBW148A0 [HM143M] | AHBW168A0 [HM163M] | | |
|-----------------------------|---------------------------------------|--------------------------------------|------------------------------|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------|
| Water Side | Operation Range | Cooling | For Fan Coil Unit | Min. ~ Max. | °C DB | 6 ~ 30 | 6 ~ 30 | 6 ~ 30 |
| | | | For under floor | Min. ~ Max. | °C DB | 16 ~ 30 | 16 ~ 30 | 16 ~ 30 |
| | | Heating | For Fan Coil Unit / Radiator | Min. ~ Max. | °C DB | 15 ~ 57 | 15 ~ 57 | 15 ~ 57 |
| | | | For under floor | Min. ~ Max. | °C DB | 15 ~ 57 | 15 ~ 57 | 15 ~ 57 |
| | Water Pump | Type | | - | Canned type for hot water circulation | Canned type for hot water circulation | Canned type for hot water circulation | |
| | | Motor Type | | - | Inverter | Inverter | Inverter | |
| | | Steps of Pumping speed | | - | - | - | - | |
| | | Power input | | Rated | W | 130 | 130 | 130 |
| | | Water Flow Rate | | Min. / Rated | l / min | 15.0 / 34.0 | 15.0 / 40.0 | 15.0 / 46.0 |
| | Heat Exchanger | Type | | - | Brazed Plate HEX | Brazed Plate HEX | Brazed Plate HEX | |
| | | Quantity | | - | 1 | 1 | 1 | |
| | | Number of Plate | | EA | 76 | 76 | 76 | |
| | | Head Loss | | Rated | kPa | 14.50 | 16.20 | 18.52 |
| | Expansion Vessel | System Water Volume | | Max. | l | 200 | 200 | |
| | | Pre-pressure | | | kPa | 120 | 120 | 120 |
| | Piping Connections | Inlet | | mm | 25.4 (Female) | 25.4 (Female) | 25.4 (Female) | |
| Outlet | | mm | 25.4 (Female) | 25.4 (Female) | 25.4 (Female) | | | |
| Strainer | Mesh size | | W x H | mm x mm | 1 x 1 | 1 x 1 | | |
| | Material | | - | Stainless Steel | Stainless Steel | Stainless Steel | | |
| Safety Valve | Pressure Limit | | Upper Limit | bar | 3.0 | 3.0 | | |
| | Devices for Water Circuit | | - | Pressure gauge | Pressure gauge | Pressure gauge | | |
| Refrigerant Side | Operation Range (Outdoor Temperature) | Cooling | Min. ~ Max. | °C DB | 5 ~ 48 | 5 ~ 48 | 5 ~ 48 | |
| | | Heating | Min. ~ Max. | °C DB | -20 ~ 35 | -20 ~ 35 | -20 ~ 35 | |
| | Compressor | Type | | - | Hermetic motor | Hermetic motor | Hermetic motor | |
| | | Model | | Model x No. | GPT442MAA | GPT442MAA | GPT442MAA | |
| | | Motor Type | | - | Twin Rotary | Twin Rotary | Twin Rotary | |
| | | Motor Output | | Rated | W x No. | 4,000 x 1 | 4,000 x 1 | 4,000 x 1 |
| | Heat Exchanger | (Row x Column x Fins per inch) x No. | | - | (2 x 32 x 14) x 2 | (2 x 32 x 14) x 2 | (2 x 32 x 14) x 2 | |
| | | Type | | - | R410A | R410A | R410A | |
| | Refrigerant | Precharged Amount | | g(oz) | 2,200(77.6) | 2,200(77.6) | 2,200(77.6) | |
| | | Control | | - | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | |
| | Refrigerant Oil | Type | | - | FVC68D | FVC68D | FVC68D | |
| | | Charged Volume | | cc x No. | 1,300 | 1,300 | 1,300 | |
| | Fan | Type | | - | Propeller | Propeller | Propeller | |
| | | Air Flow Rate | | Rated | m³/min x No. | 60.0 x 2 | 60.0 x 2 | 60.0 x 2 |
| | Fan Motor | Type | | - | BLDC | BLDC | BLDC | |
| | | Output | | W x No. | 124 x 2 | 124 x 2 | 124 x 2 | |
| Sound Pressure Level | Cooling | Rated | dB(A) | 54 | 54 | 54 | | |
| | Heating | Rated | dB(A) | 53 | 53 | 53 | | |
| Sound Power Level | Heating | Max. | dB(A) | 68 | 68 | 68 | | |
| Silent Sound Pressure Level | Heating | Rated | dB(A) | 50 | 50 | 50 | | |
| Silent Sound Power Level | Heating | Max. | dB(A) | 61 | 61 | 61 | | |
| Dimensions | Unit | | W x H x D | mm | 1,239 x 1,450 x 390 | 1,239 x 1,450 x 390 | | |
| Weight | Unit | | | kg | 145.0 | 145.0 | | |

| Electrical Specifications | | | | AHBW128A0 [HM123M] | AHBW148A0 [HM143M] | AHBW168A0 [HM163M] | |
|---------------------------|-------------------------------------|-------------------------------------|--|--------------------|--------------------|--------------------|-------------------|
| Outdoor Unit | Power Supply | | | V, Ø, Hz | 380-415, 3, 50 | 380-415, 3, 50 | 380-415, 3, 50 |
| | Running Current | Cooling | | A | 11.0 | 11.0 | 11.0 |
| | | Heating | | A | 11.0 | 11.0 | 11.0 |
| Wiring Connections | Power Supply Cable (included Earth) | | | No x mm² | 3 x 2.5 (H07RN-F) | 3 x 2.5 (H07RN-F) | 3 x 2.5 (H07RN-F) |
| Heater | Power Supply | | | V, Ø, Hz | 380-415, 3, 50 | 380-415, 3, 50 | 380-415, 3, 50 |
| | Running current | | | A | 9.6 | 9.6 | 9.6 |
| | Wiring connection | Power Supply Cable (included Earth) | | | No x mm² | 3 x 4.0 (H07RN-F) | 3 x 4.0 (H07RN-F) |

Note :

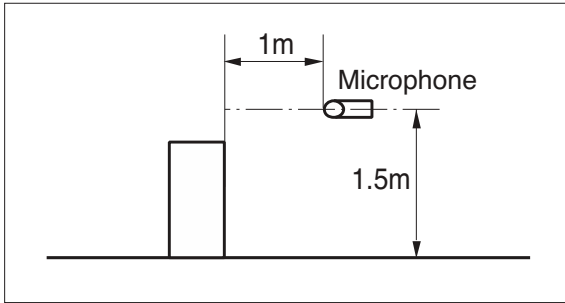
- Capacities and power inputs are based on the following conditions:
 *1 : Cooling conditions - Inlet/Outlet Water Temperature 23°C/18°C;
 Outdoor Air Temperature 35°CDB/24°CWB
 Heating conditions - Inlet/Outlet Water Temperature 30°C/35°C;
 Outdoor Air Temperature 7°CDB/6°CWB

- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.
- This product contains Fluorinated Greenhouse Gases.

11. Noise Criteria

11.1 Sound pressure level

Overall



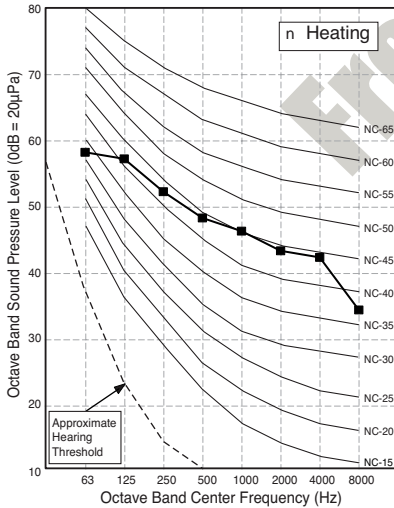
Notes:

- Sound measured at 1m away with 1.5m height.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure acoustic 0dB = 20μPa.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.

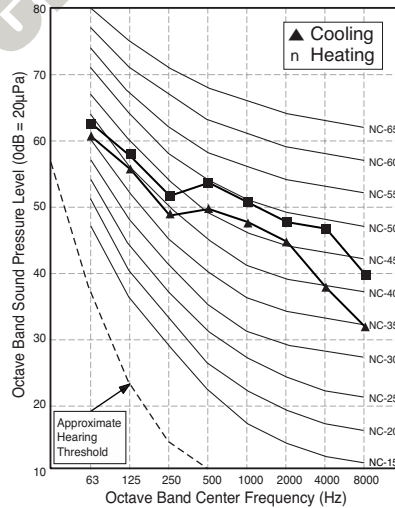
| Model | Sound Pressure Level [dB(A)] | |
|--------------------|------------------------------|---------|
| | Cooling | Heating |
| AHBW036H0 [HM031M] | - | 47 |
| AHBW056A0 [HM051M] | 50 | 51 |
| AHBW076A0 [HM071M] | 52 | 52 |
| AHBW096A0 [HM091M] | 52 | 52 |
| AHBW126A0 [HM121M] | 54 | 53 |

| Model | Sound Pressure Level [dB(A)] | |
|--------------------|------------------------------|---------|
| | Cooling | Heating |
| AHBW146A0 [HM141M] | 54 | 53 |
| AHBW166A0 [HM161M] | 54 | 53 |
| AHBW128A0 [HM123M] | 54 | 53 |
| AHBW148A0 [HM143M] | 54 | 53 |
| AHBW168A0 [HM163M] | 54 | 53 |

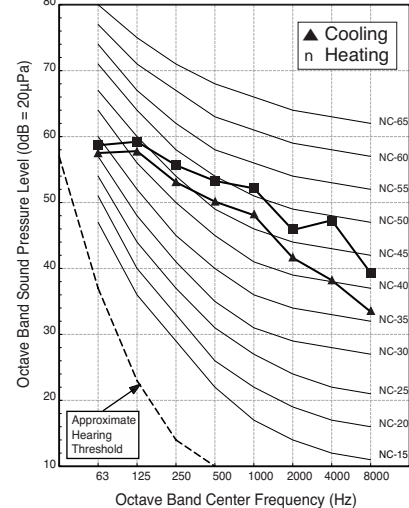
AHBW036H0 [HM031M]



AHBW056A0 [HM051M]

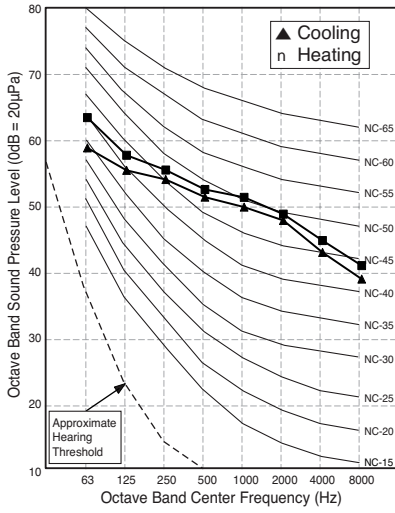


**AHBW076A0 [HM071M]
AHBW096A0 [HM091M]**

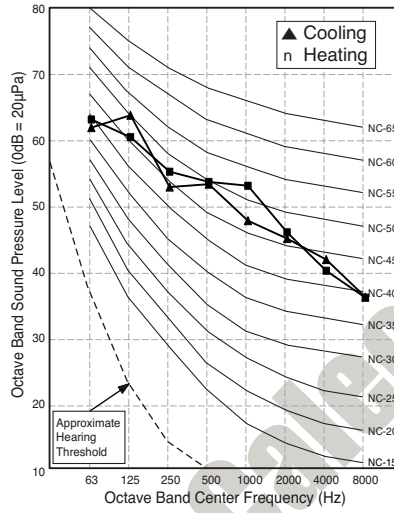


11. Noise Criteria

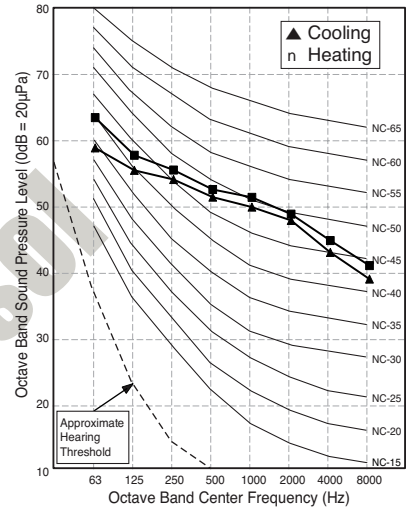
AHBW126A0 [HM121M]



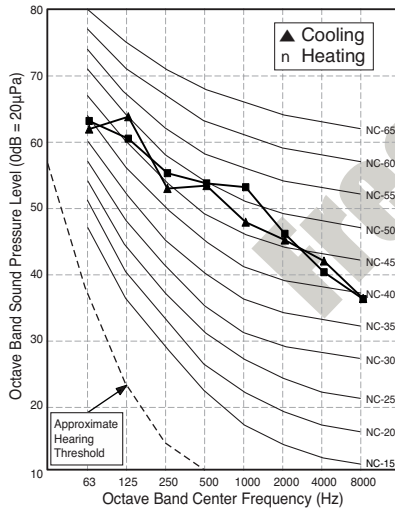
**AHBW146A0 [HM141M]
AHBW166A0 [HM161M]**



AHBW128A0 [HM123M]



**AHBW148A0 [HM143M]
AHBW168A0 [HM163M]**



Approximated SPL at specific distance:

- $SPL[dB] = A + 20 \times \log(B/C)$
- Where A[dB] : SPL at 1m distance
B[m] : 1m
C[m] : specific distance

11. Noise Criteria

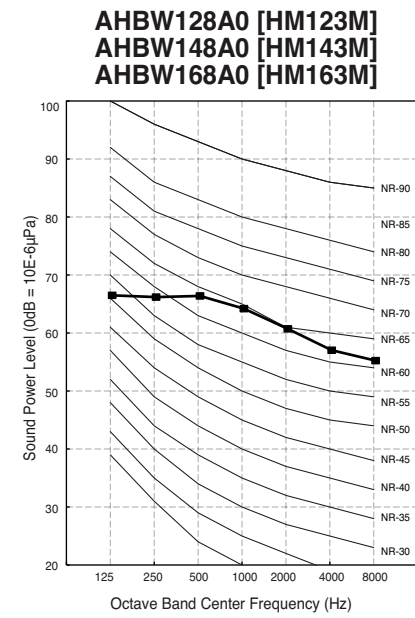
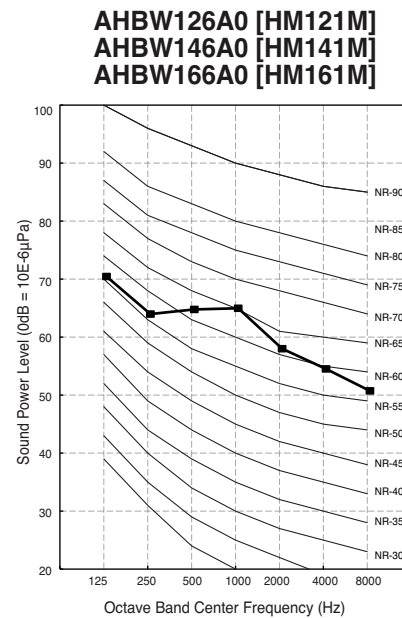
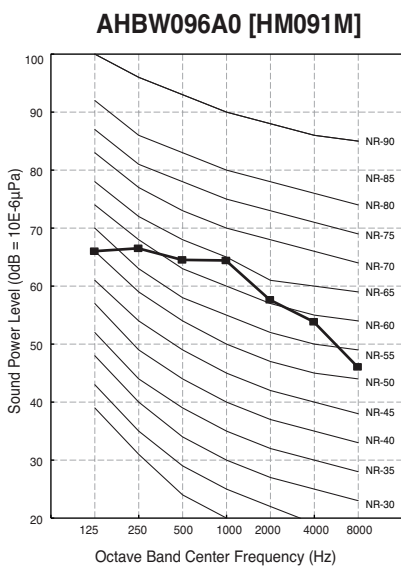
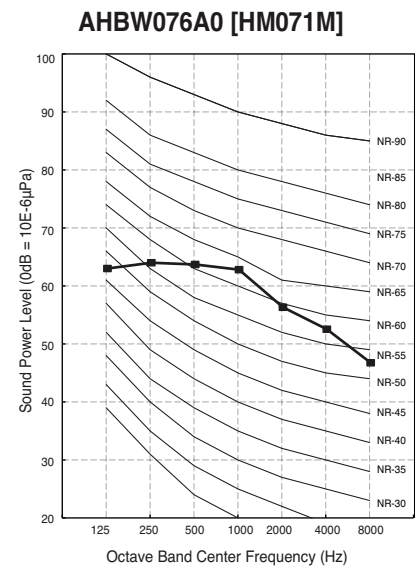
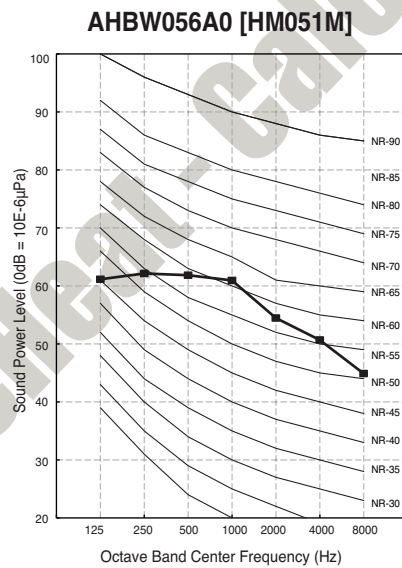
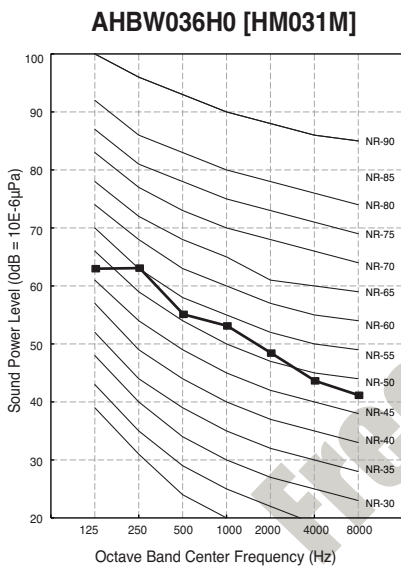
11.2 Sound power level

Notes:

1. Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
2. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

| Model | Sound power level dB(A) |
|--------------------|-------------------------|
| | Heating |
| AHBW036H0 [HM031M] | 55 |
| AHBW056A0 [HM051M] | 63 |
| AHBW076A0 [HM071M] | 65 |
| AHBW096A0 [HM091M] | 65 |
| AHBW126A0 [HM121M] | 67 |

| Model | Sound power level dB(A) |
|--------------------|-------------------------|
| | Heating |
| AHBW146A0 [HM141M] | 67 |
| AHBW166A0 [HM161M] | 67 |
| AHBW128A0 [HM123M] | 67 |
| AHBW148A0 [HM143M] | 67 |
| AHBW168A0 [HM163M] | 67 |



11. Noise Criteria

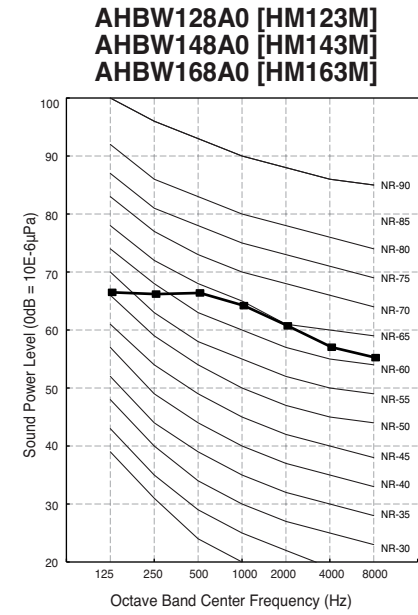
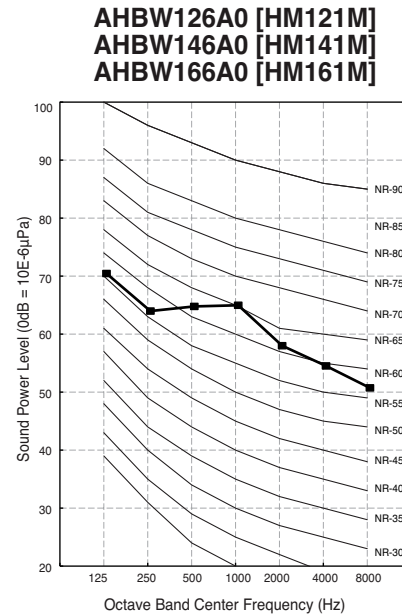
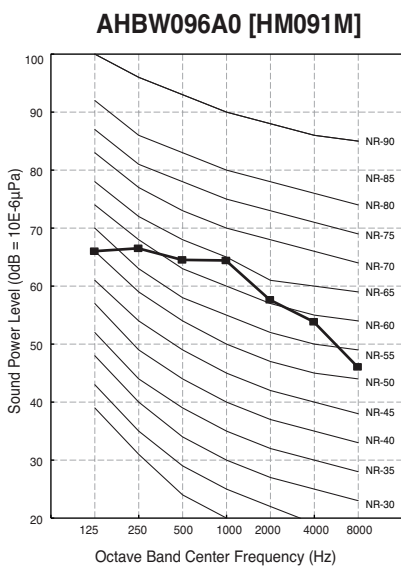
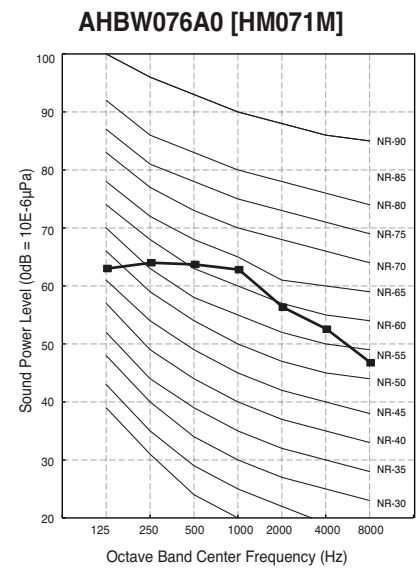
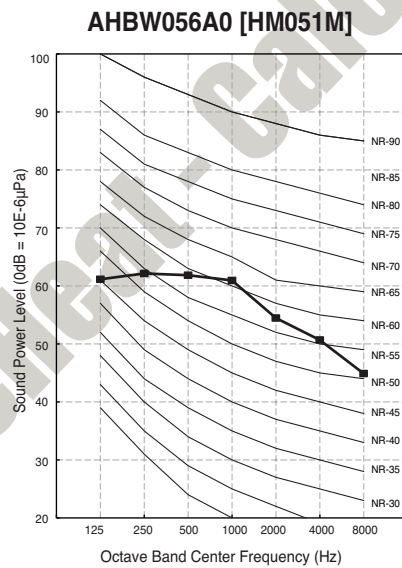
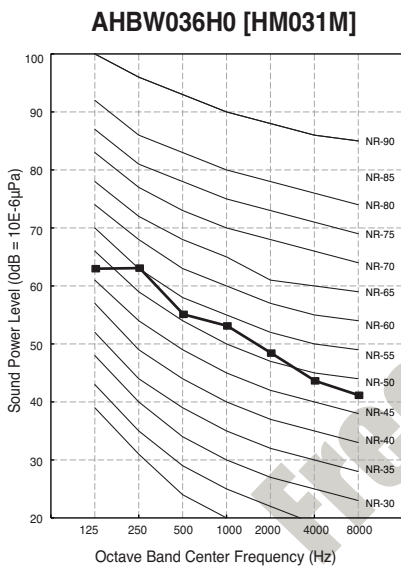
11.3 Sound power level (NF PAC test)

Notes:

1. Reference acoustic intensity 0dB = 10E-6μW/m²
2. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

| Model | Sound power level dB(A) |
|--------------------|-------------------------|
| | Heating |
| AHBW036H0 [HM031M] | 57 |
| AHBW056A0 [HM051M] | 63 |
| AHBW076A0 [HM071M] | 65 |
| AHBW096A0 [HM091M] | 67 |
| AHBW126A0 [HM121M] | 68 |

| Model | Sound power level dB(A) |
|--------------------|-------------------------|
| | Heating |
| AHBW146A0 [HM141M] | 68 |
| AHBW166A0 [HM161M] | 68 |
| AHBW128A0 [HM123M] | 68 |
| AHBW148A0 [HM143M] | 68 |
| AHBW168A0 [HM163M] | 68 |



3. List of functions

| Category | Functions | AHBW126A0 [HM121M] AHBW146A0 [HM141M] AHBW166A0 [HM161M] | AHBW128A0 [HM123M] AHBW148A0 [HM143M] AHBW168A0 [HM163M] |
|----------------------------------|---|--|--|
| Installation | Drain pump | X | X |
| | E.S.P. control | X | X |
| | Electric heater | O | O |
| | High ceiling operation | X | X |
| | Auto Elevation Grille | X | X |
| Reliability | Hot start | X | X |
| | Self diagnosis | O | O |
| | Soft dry operation | X | X |
| Convenience | Auto changeover | X | X |
| | Auto cleaning | X | X |
| | Auto operation(artificial intelligence) | X | X |
| | Auto Restart | O | O |
| | Child lock | O | O |
| | Forced operation | X | X |
| | Group control | X | X |
| | Sleep mode | O | O |
| | Timer(on/off) | O | O |
| | Timer(weekly) | O | O |
| Individual control | Two thermistor control | X | X |
| | Standard Wired remote controller | O | O |
| | Deluxe wired remote controller | X | X |
| | Simple wired remote controller | X | X |
| | Simple Wired remote controller(for hotel use) | X | X |
| | Wireless remote controller | X | X |
| Network function | General central controller (Non LGAP) | O | O |
| | Network Solution(LGAP) | X | X |
| | Dry contact | PQDSA | PQDSA |
| Special function kit | PI 485(for Indoor Unit) | O | O |
| | Zone controller | X | X |
| | CTI(Communication transfer interface) | X | X |
| Others | Electronic thermostat | X | X |
| | Remote temperature sensor | PQRSTA0 | PQRSTA0 |
| Air to Water Heat Pump Functions | Group control wrie | X | X |
| | Telecom shelter controller | X | X |
| | Anti-condensation on floor(cooling) | O | O |
| | Water pump on / off Control | O | O |
| | Flow switch control | O | O |
| | Thermostat interface (230V AC) | O | O |
| | Thermostat interface (24V AC) | X | X |
| | Domestic Hot Water Tank heating (Install kit) | PHLTB | PHLTB |
| | Solar-thermal interface with Domestic Hot Water Tank (Solar thermal kit) | PHLLA | PHLLA |
| | PHEX anti-freezing control | O | O |
| | Water pump foeced operation | O | O |
| | Autosetting according to ambient temperature | O | O |
| | Slient operation (with scheduler) | O | O |
| | Anti-overheating of water pipe | O | O |
| | Emergency operation | O | O |
| | Scheduler(Domestic Hot Water Tank Heating / Domestic Hot Water Tank Heater) | O | O |
| | Timer(Domestic Hot Water Tank Heating / Domestic Hot Water Tank Heater) | O | O |
| | Quick Domestic Hot Water Tank Heating | O | O |
| | Electric Heater Capacity Control | O | O |
| | Screed Drying Mode | O | O |
| Sump Heater | O | O | |
| Base Pan Heater | O | O | |
| Dry Contact (Main PCB) | O | O | |

Note :

1. * : These functions need to connect the wired remote controller.
O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

3. List of functions

3.2 Refrigerant side

| Category | Functions | AHBW036H0 [HM031M] | AHBW056A0 [HM051M] AHBW076A0 [HM071M] AHBW096A0 [HM091M] |
|------------------|---|--------------------|--|
| Reliability | Defrost / Deicing | O | O |
| | High pressure switch | X | X |
| | Low pressure switch | X | X |
| | Phase protection | X | X |
| | Restart delay (3-minutes) | O | O |
| | Self diagnosis | O | O |
| Convenience | Soft start | X | X |
| | Test function | O | O |
| | Wiring Error Check | X | X |
| | Peak Control | X | X |
| | Mode Lock | X | X |
| Network function | Forced Cooling Operation (Outdoor Unit) | X | X |
| | Network solution(LGAP) | X | X |

| Category | Functions | AHBW126A0 [HM121M] AHBW146A0 [HM141M] AHBW166A0 [HM161M] | AHBW128A0 [HM123M] AHBW148A0 [HM143M] AHBW168A0 [HM163M] |
|------------------|---|--|--|
| Reliability | Defrost / Deicing | O | O |
| | High pressure switch | X | X |
| | Low pressure switch | X | X |
| | Phase protection | X | O |
| | Restart delay (3-minutes) | O | O |
| | Self diagnosis | O | O |
| Convenience | Soft start | X | X |
| | Test function | O | O |
| | Wiring Error Check | X | X |
| | Peak Control | X | X |
| | Mode Lock | X | X |
| Network function | Forced Cooling Operation (Outdoor Unit) | X | X |
| | Network solution(LGAP) | X | X |

Note :

1. * : These functions need to connect the wired remote controller.
O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.