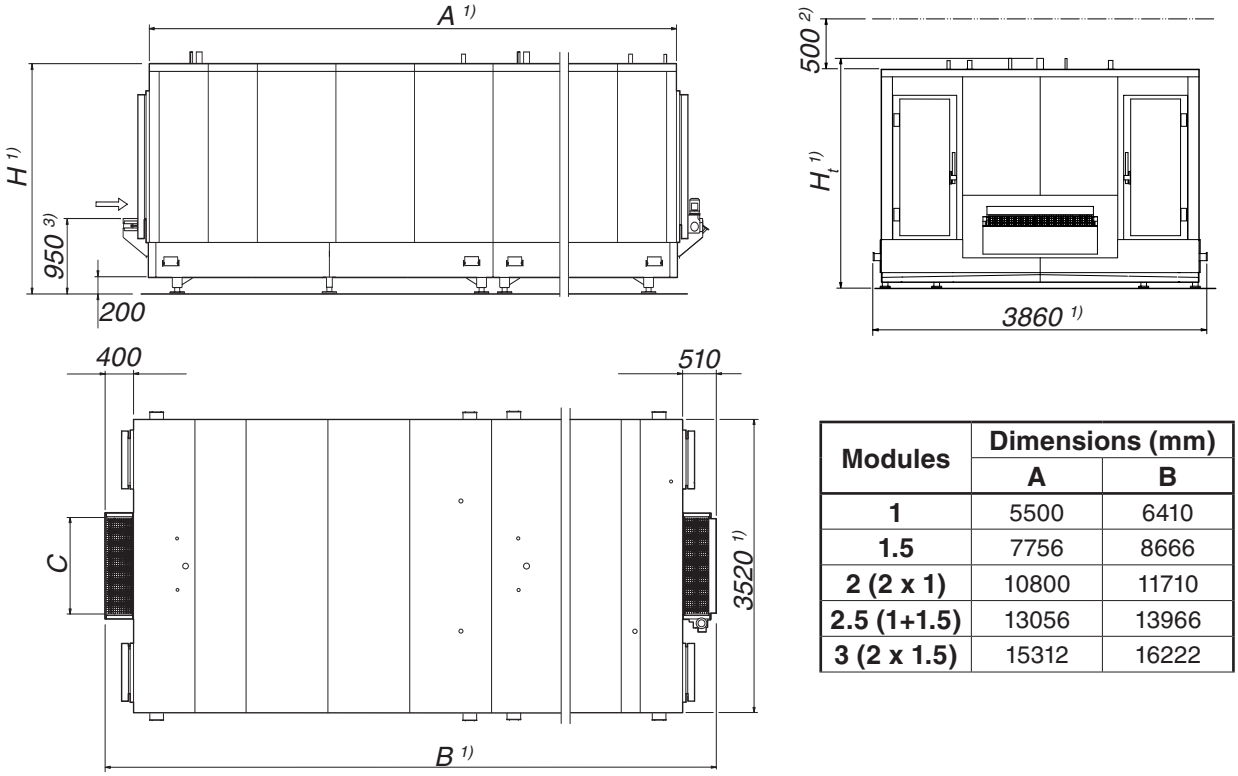
# Dimensions (SI-System)

Frigoscandia ADVANTEC™ Impingement Freezer-1250




| Modules | Dimensions (mm) | |
|---|---|---|
| | A | B |
| 1 | 5500 | 6410 |
| 1.5 | 7756 | 8666 |
| 2 (2 x 1) | 10800 | 11710 |
| 2.5 (1+1.5) | 13056 | 13966 |
| 3 (2 x 1.5) | 15312 | 16222 |

| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| Advantec Model 4) | Belt width C (mm) | | Enclosure height H (mm) | Total equipment height $H_t$ (mm) | Min. space for intake of equipment (mm) | Weight of largest transport unit (kg) |
| | Total | Effective | | | | SS/AL evap. |
| xM-1250-1-R8 | 1250 | 1220 | 2710 | 2860 | 1900 x 2800 | 3400 |
| xM-1250-1-R12 | 1250 | 1220 | 2950 | 3100 | 1900 x 3000 | 4000 |
| **Optional** | | | | | | |
| xM-1250-2-R8 | 2 x 625 | 2 x 595 | 2710 | 2860 | 1900 x 2800 | 3400 |
| xM-1250-2-R12 | 2 x 625 | 2 x 595 | 2950 | 3100 | 1900 x 3000 | 4000 |

*1) Measures valid for enclosure thickness 100 mm*
*2) Minimum space*
*3) Infeed height*
*4) LVS not available for evaporator size R8*

*™ = Trade mark of JBT.*
*Subject to be changed without notice.*

0108-01-01GB-02-28

# Technical Data (SI-system)

**Advantec 1250 mm belt - 50 Hz**

| Number of modules | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
|---|---|---|---|---|---|---|
| **Conveyor Belt** | | | | | | |
| Vertical clearance for product (conveyor belt - lid) | | Standard: 35 mm<br>Optional: Up to 200 mm in steps of 15 mm | | | | |
| Type | | Stainless steel wire mesh | | | | |
| Total length of impingement zone (mm) | | 4725 | 6981 | 9450 | 11706 | 13962 |
| Conveyor belt speed range (m/min) | | 1.2-24 or 0.7-15 or 0.5-10 or 0.3-6 | | | | |
| Holding time (min) | 1.2-24 m/min | 0.2-4 | 0.3-6 | 0.4-8 | 0.6-10 | 0.7-11 |
| | 0.7-15 m/min | 0.3-6.5 | 0.5-8 | 0.7-12 | 0.9-16 | 1.1-19 |
| | 0.5-10 m/min | 0.5-10 | 0.8-12 | 1.1-16 | 1.4-20 | 1.7-24 |
| | 0.3-6 m/min | 1-14 | 1.4-20 | 1.9-27 | NA | NA |
| **Electrical requirements** | | | | | | |
| Main voltage, frequency | | 3 x 380- 460 V, 50 / 60 Hz | | | | |
| Normal power consumption (kW) [2] | | 20 | 30 | 39 | 48 | 57 |
| **Refrigeration system** | | | | | | |
| Standard design | | R717 (Ammonia), LVS or pump circulation | | | | |
| Base load (kW) | | 20 | 30 | 39 | 49 | 58 |
| **Evaporator and fan defrosting system [1]** | | | | | | |
| Defrosting media | | Integrated water system [3] | | | | |
| Minimum/maximum water temp during initial defrost (°C)[3][4][5] | | +15 °C / +25 °C | | | | |
| Maximum defrost flow rate (liters/min) [3] | | 2 x 125 | 2 x 180 | 2 x 125 | 2 x 180 | 2 x 180 |
| Required water pressure (bar) | | 1.5 | | | | |
| Maximum water consumption (liters) [1] | | 750 | 1080 | 1500 | 1830 | 2160 |
| **Conveyor belt rinse system** | | | | | | |
| Minimum / maximum water temp (°C) [3] | | +15 °C / +25 °C | | | | |
| Maximum flow rate [3] | | 100 L/min | | | | |
| Total conveyor belt rinse time (min) | | 2-5 | 3-8 | 4-10 | 5-12 | 6-15 |
| Required water pressure (bar) | | 1.5 | | | | |
| **Noise emissions** | | | | | | |
| According to EC Machine Directive [6] | | | | | | |

# Evaporator Rows and Volume [7)]

| Evaporator rows [8)] | Type of evaporator | Number of modules | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
| | | Volume / Evaporator | | | | |
| R8 | Stainless steel / Aluminium | 2 x 99 | 2 x 143 | 4 x 99 | 2 x 99 + 2 x 143 | 4 x 143 |
| R12 | | 2 x 147 | 2 x 215 | 4 x 147 | 2 x 147 + 2 x 215 | 4 x 215 |

## Advantec 1250 mm belt - 60 Hz

| Number of modules | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
|---|---|---|---|---|---|---|
| **Conveyor Belt** | | | | | | |
| Vertical clearance for product (conveyor belt - lid) | | Standard: 35 mm<br>Optional: Up to 200 mm in steps of 15 mm | | | | |
| Type | | Stainless steel wire mesh | | | | |
| Total length of impingement zone (mm) | | 4725 | 6981 | 9450 | 11706 | 13962 |
| Conveyor belt speed range (m/min) | | 1.2-24 or 0.7-15 or 0.5-10 or 0.3-6 | | | | |
| Holding time (min) | 1.2-24 m/min | 0.2-4 | 0.3-6 | 0.4-8 | 0.6-10 | 0.7-11 |
| | 0.7-15 m/min | 0.3-6.5 | 0.5-8 | 0.7-12 | 0.9-16 | 1.1-19 |
| | 0.5-10 m/min | 0.5-10 | 0.8-12 | 1.1-16 | 1.4-20 | 1.7-24 |
| | 0.3-6 m/min | 1-14 | 1.4-20 | 1.9-27 | NA | NA |
| **Electrical requirements** | | | | | | |
| Main voltage, frequency | | 3 x 380- 460 V, 50 / 60 Hz | | | | |
| Normal power consumption (kW)[2)] | | 20 | 30 | 39 | 48 | 57 |
| **Refrigeration system** | | | | | | |
| Standard design | | R717 (Ammonia), LVS or pump circulation | | | | |
| Base load (kW) | | 22 | 33 | 43 | 54 | 64 |
| **Evaporator and fan defrosting system [1)]** | | | | | | |
| Defrosting media | | Integrated water system [3)] | | | | |
| Minimum/maximum water temp during initial defrost (°C)[3)4)5] | | +15 °C / +25 °C | | | | |
| Maximum defrost flow rate (liters/min) [3)] | | 2 x 125 | 2 x 180 | 2 x 125 | 2 x 180 | 2 x 180 |
| Required water pressure (bar) | | 1.5 | | | | |
| Maximum water consumption (liters) [1)] | | 750 | 1080 | 1500 | 1830 | 2160 |
| **Conveyor belt rinse system** | | | | | | |
| Minimum / maximum water temp (°C)[3)] | | +15 °C / +25 °C | | | | |
| Maximum flow rate [3)] | | 100 L/min | | | | |
| Total conveyor belt rinse time (min) | | 2-5 | 3-8 | 4-10 | 5-12 | 6-15 |
| Required water pressure (bar) | | 1.5 | | | | |
| **Noise emissions** | | | | | | |
| According to EC Machine Directive [6)] | | | | | | |

*1) Valid for one complete water defrost cycle (3 minutes / module)*
*2) Does not include dimensioning of power supply fuses/cables. Refer to customer drawings for maximum power requirement.*
*3) Must be potable water.*
*4) Make sure refrigeration system is safe for water temperature in use.*
*5) When the evaporator is free from snow and ice, use +40 °C water temperature to reach a two hours turn around time.*
*6) Noise emission values may vary depending on equipment configuration.*

# Evaporator rows and volume [7)]

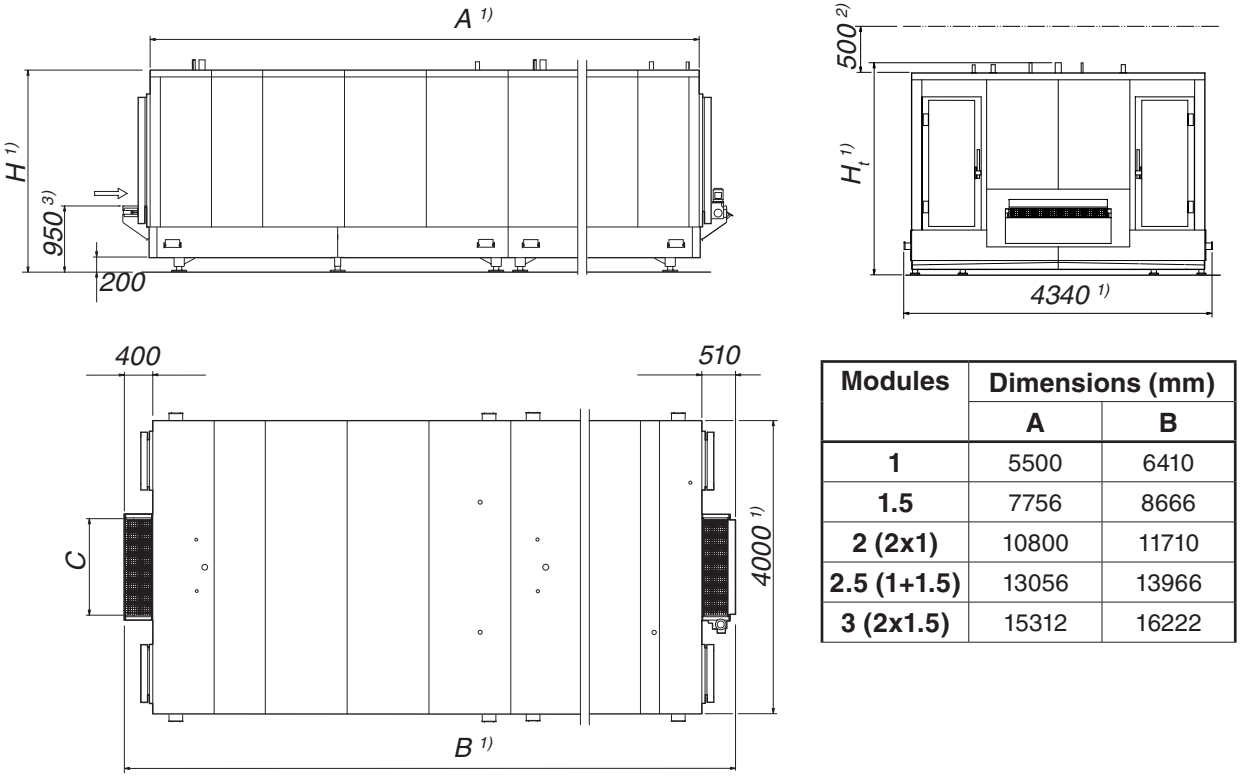
| Evaporator rows [8)] | Type of evaporator | Number of modules | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
| | | Volume / Evaporator | | | | |
| R8 | Stainless steel / Aluminium | 2 x 99 | 2 x 143 | 4 x 99 | 2 x 99 + 2 x 143 | 4 x 143 |
| R12 | | 2 x 147 | 2 x 215 | 4 x 147 | 2 x 147 + 2 x 215 | 4 x 215 |

*7) If Frigoscandia LVS Refrigeration™ is installed the refrigeration charge is approx. 50 % less.*
*8) LVS not available for evaporator size R8*

# Dimensions (SI-system)

ADVANTEC Impingement Freezer-1800

**Note!**
Measurements are valid for 100 mm enclosure thickness.




| Modules | Dimensions (mm) | |
|---|---|---|
| | A | B |
| 1 | 5500 | 6410 |
| 1.5 | 7756 | 8666 |
| 2 (2x1) | 10800 | 11710 |
| 2.5 (1+1.5) | 13056 | 13966 |
| 3 (2x1.5) | 15312 | 16222 |

| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| Advantec Model 4) | Belt width C (mm) | | Enclosure height H (mm) | Total equip-ment height $H_t$ (mm) | Min. space for intake of equipment (mm) | Weight of largest transport unit (kg) |
| | Total | Effective | | | | SS/AL evap. |
| xM-1800-1-R8 | 1800 | 1770 | 2710 | 2860 | 2400 x 2800 | 4300 |
| xM-1800-1 R12 | 1800 | 1770 | 2950 | 3100 | 2400 x 3000 | 5000 |
| Optional | | | | | | |
| xM-1800-2 R8 | 2 x 900 | 2 x 870 | 2710 | 2860 | 2400 x 2800 | 4300 |
| xM-1800-2 R12 | 2 x 900 | 2 x 870 | 2950 | 3100 | 2400 x 3000 | 5000 |

*1) Measures valid for enclosure thickness 100 mm*
*2) Minimum space*
*3) Infeed height*
*4) LVS not available for evaporator size R8*

## Advantec 1800 mm belt - 50 Hz

| Number of modules | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
|---|---|---|---|---|---|---|
| **Conveyor Belt** | | | | | | |
| Vertical clearance for product (conveyor belt - lid) | | Standard: 35 mm<br>Optional: Up to 200 mm in steps of 15 mm | | | | |
| Type | | Stainless steel wire mesh | | | | |
| Total length of impingement zone (mm) | | 4725 | 6981 | 9450 | 11706 | 13962 |
| Conveyor belt speed range (m/min) | | 1.2-24 or 0.7-15 or 0.5-10 or 0.3-6 | | | | |
| Holding time (min) | 1.2-24 m/min | 0.2-4 | 0.3-6 | 0.4-8 | 0.6-10 | 0.7-11 |
| | 0.7-15 m/min | 0.3-6.5 | 0.5-8 | 0.7-12 | 0.9-16 | 1.1-19 |
| | 0.5-10 m/min | 0.5-10 | 0.8-12 | 1.1-16 | 1.4-20 | 1.7-24 |
| | 0.3-6 m/min | 1-14 | 1.4-20 | 1.9-27 | NA | NA |
| **Electrical requirements** | | | | | | |
| Main voltage, frequency | | 3 x 380- 460 V, 50 / 60 Hz | | | | |
| Normal power consumption (kW) [2] | | 30 | 48 | 57 | 76 | 94 |
| **Refrigeration system** | | | | | | |
| Standard design | | R717 (Ammonia), LVS or pump circulation | | | | |
| Base load (kW) | | 30 | 49 | 58 | 77 | 96 |
| **Evaporator and fan defrosting system [1]** | | | | | | |
| Defrosting media | | Integrated water system [3] | | | | |
| Minimum/maximum water temp during initial defrost (°C)[3][4][5] | | +15 °C / +25 °C | | | | |
| Maximum defrost flow rate (liters/min) [3] | | 2 x 125 | 2 x 180 | 2 x 125 | 2 x 180 | 2 x 180 |
| Required water pressure (bar) | | 1.5 | | | | |
| Maximum water consumption (liters) [1] | | 750 | 1080 | 1500 | 1830 | 2160 |
| **Conveyor belt rinse system** | | | | | | |
| Minimum / maximum water temp (°C)[3] | | +15 °C / +25 °C | | | | |
| Maximum flow rate [3] | | 145 L/min | | | | |
| Total conveyor belt rinse time (min) | | 2-5 | 3-8 | 4-10 | 5-12 | 6-15 |
| Required water pressure (bar) | | 1.5 | | | | |
| **Noise emissions** | | | | | | |
| According to EC Machine Directive [6] | | | | | | |

# Evaporator Rows and Volume [7)]

| Evaporator rows [8)] | Type of evaporator | Number of modules | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
| | | Volume / Evaporator | | | | |
| R8 | Stainless steel / Aluminium | 2 x 155 | 2 x 225 | 4 x 155 | 2 x 155 + 2 x 225 | 4 x 225 |
| R12 | | 2 x 231 | 2 x 339 | 4 x 231 | 2 x 231 + 2 x 339 | 4 x 339 |

*7) If Frigoscandia LVS Refrigeration™ is installed the refrigeration charge is approx. 50 % less.*
*8) LVS not available for evaporator size R8*

**Advantec 1800 mm belt - 60 Hz**

| Number of modules | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
|---|---|---|---|---|---|---|
| **Conveyor Belt** | | | | | | |
| Vertical clearance for product (conveyor belt - lid) | | Standard: 35 mm<br>Optional: Up to 200 mm in steps of 15 mm | | | | |
| Type | | Stainless steel wire mesh | | | | |
| Total length of impingement zone (mm) | | 4725 | 6981 | 9450 | 11706 | 13962 |
| Conveyor belt speed range (m/min) | | 1.2-24 or 0.7-15 or 0.5-10 or 0.3-6 | | | | |
| Holding time (min) | 1.2-24 m/min | 0.2-4 | 0.3-6 | 0.4-8 | 0.6-10 | 0.7-11 |
| | 0.7-15 m/min | 0.3-6.5 | 0.5-8 | 0.7-12 | 0.9-16 | 1.1-19 |
| | 0.5-10 m/min | 0.5-10 | 0.8-12 | 1.1-16 | 1.4-20 | 1.7-24 |
| | 0.3-6 m/min | 1-14 | 1.4-20 | 1.9-27 | NA | NA |
| **Electrical requirements** | | | | | | |
| Main voltage, frequency | | 3 x 380- 460 V, 50 / 60 Hz | | | | |
| Normal power consumption (kW) [2)] | | 30 | 48 | 57 | 76 | 94 |
| **Refrigeration system** | | | | | | |
| Standard design | | R717 (Ammonia), LVS or pump circulation | | | | |
| Base load (kW) | | 33 | 54 | 64 | 85 | 106 |
| **Evaporator and fan defrosting system [1)]** | | | | | | |
| Defrosting media | | Integrated water system [3)] | | | | |
| Minimum/maximum water temp during initial defrost (°C)[3)4)5] | | +15 °C / +25 °C | | | | |
| Maximum defrost flow rate (liters/min) [3)] | | 2 x 125 | 2 x 180 | 2 x 125 | 2 x 180 | 2 x 180 |
| Required water pressure (bar) | | 1.5 | | | | |
| Maximum water consumption (liters) [1)] | | 750 | 1080 | 1500 | 1830 | 2160 |
| **Conveyor belt rinse system** | | | | | | |
| Minimum / maximum water temp (°C) [3)] | | +15 °C / +25 °C | | | | |
| Maximum flow rate [3)] | | 145 L/min | | | | |
| Total conveyor belt rinse time (min) | | 2-5 | 3-8 | 4-10 | 5-12 | 6-15 |
| Required water pressure (bar) | | 1.5 | | | | |
| **Noise emissions** | | | | | | |
| According to EC Machine Directive | | Maximum 78 dB(A) | | | | |

*1) Valid for one complete water defrost cycle (3 minutes / module)*
*2) Does not include dimensioning of power supply fuses/cables. Refer to customer drawings for maximum power requirement.*
*3) Must be potable water.*
*4) Make sure refrigeration system is safe for water temperature in use.*
*5) When the evaporator is free from snow and ice, use +40 °C water temperature to reach a two hours turn around time.*
*6) Noise emission values may vary depending on equipment configuration.*

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# Evaporator Rows and Volume [7)]

| Evaporator rows [8)] | Type of evaporator | Number of modules | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 1.5 | 2 (2x1) | 2.5 (1+1.5) | 3 (2x1.5) |
| | | Volume / Evaporator | | | | |
| R8 | Stainless steel / Aluminium | 2 x 155 | 2 x 225 | 4 x 155 | 2 x 155 + 2 x 225 | 4 x 225 |
| R12 | | 2 x 231 | 2 x 339 | 4 x 231 | 2 x 231 + 2 x 339 | 4 x 339 |

*7) If Frigoscandia LVS Refrigeration™ is installed the refrigeration charge is approx. 50 % less.*
*8) LVS not available for evaporator size R8*