

Plant Solutions

Classic Range

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The Classic Range:

- **Refrigerant:** HFC
- **Types of system:** Single (medium or low temperature) or dual (medium temperature and low temperature)
- **Pack arrangement:** Internal, Housed or Packaged
- **Frame dimensions:** From 2 up to 16 compressors

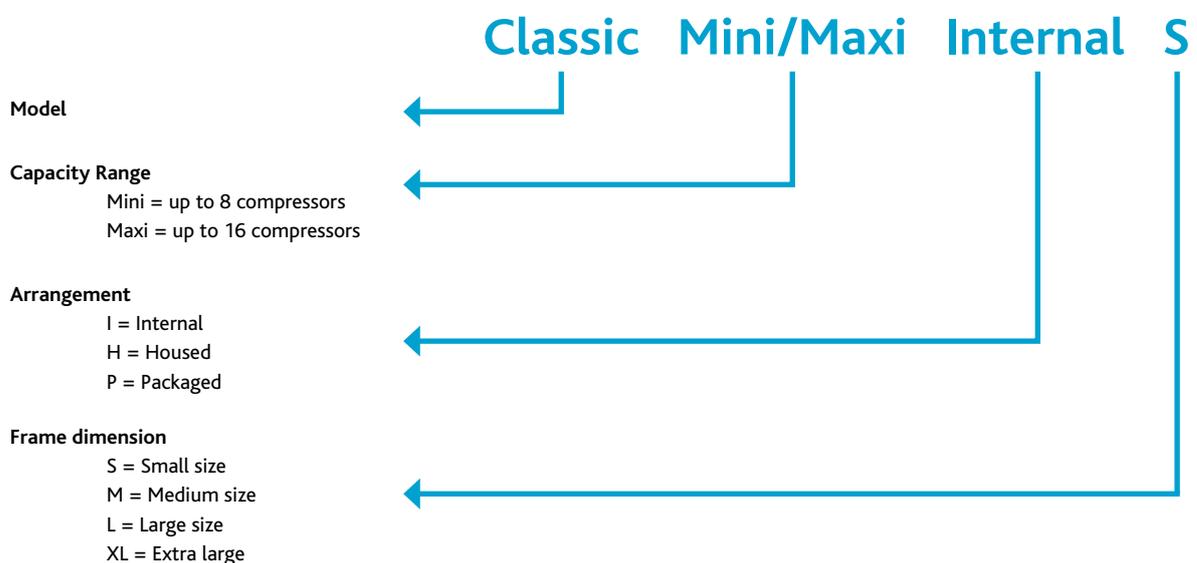
Classic Mini and Classic Maxi Internal

At Space Engineering Services, we have been building and developing refrigeration solutions since 1992, and our products have been constantly evolving to meet the changing needs of our customers.

Our expertise, which we have honed over the last 22 years, has enabled us to lower build costs, whilst raising the reliability of our plant solutions as well as lowering leak potential. We have a skilled Research and Development team with a wealth of knowledge which work on site with our plant manufacturing teams delivering innovation to every plant solution. We have high volume plant manufacturing capabilities, and can also deliver smaller quantities which are bespoke to suit the needs of our customers.

The Classic Mini and Classic Maxi Internal range offers a cost effective refrigeration solution for all sizes of stores, from the smallest convenience format to the largest sized superstores.

The Classic plant range suits all HFC refrigerants; R404A, R407A, R407F and R134A. These units can be supplied with either scroll or reciprocating compressor technology with between 2 and 16 compressors.

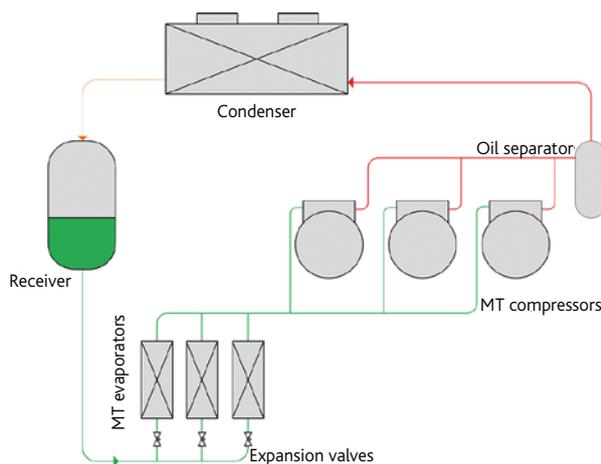


Classic Mini and Classic Maxi Internal

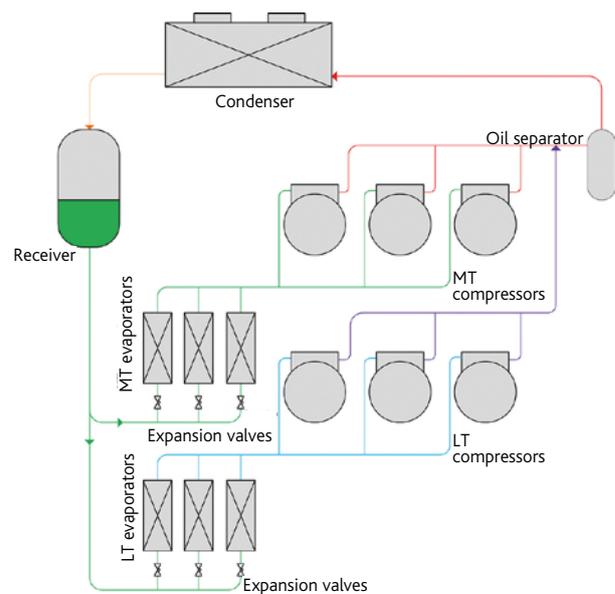
System Features

- Pre-formed copper piping with minimal joints to reduce leak potential
- Designed for easy installation in plant or stock room
- Suitable for all format supermarket retail applications
- Modular compressor configuration means a wide application range
- Single or dual temperature configuration
- Full PLC backup feature on the control panel for overcapacity in high ambient conditions
- Remote HP receiver in 30, 60, 80 & 110ltr volume options
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Option for HP receiver to be fitted and pre-piped to condenser
- Integral control panel
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard

Single System



Dual System



System Details

Internal	Refrigerant ^(a)	HFC	HFC	HFC	HFC	HFC
	Model	Mini	Mini	Maxi	Maxi	Maxi
	System	Single/Dual	Single/Dual	Single/Dual	Single/Dual	Single/Dual
	Max n.º of compressors	4	6	8	10	16
	MT capacity - SINGLE [kW] ^(b)	20-40	40-60	60-80	80-100	100-160
	MT capacity - DUAL [kW] ^(b)	10-30	10-50	10-70	10-90	10-150
	LT capacity - DUAL [kW] ^(c)	5-15	5-25	5-35	5-45	5-75
	Condenser arrangement	Remote	Remote	Remote	Remote	Remote
	Compressor frame dimensions	Extra Small	Small	Medium	Medium	Large
	Length [mm]	990	1325	2080	2080	6300
Width [mm]	600	600	625	625	960	
Height [mm]	1895	1895	1940	1940	2000	
Weight [kg] ^(d)	340	430	900	900	2800	

(a) HFC refrigerants: R404A / R4071

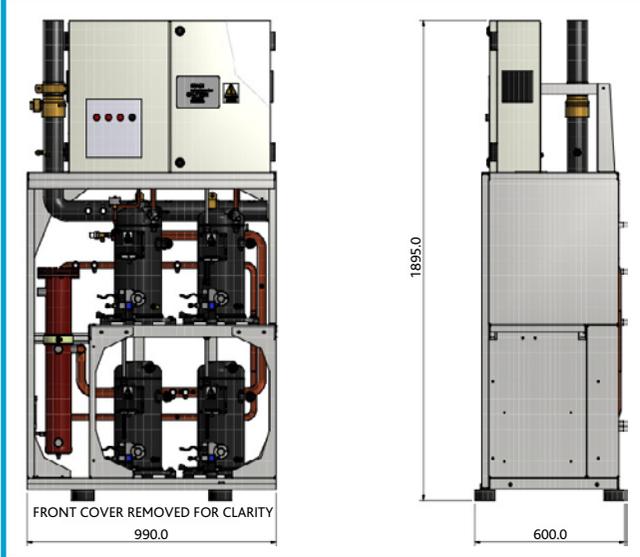
(b) Performance assuming R404A at -10°C condensing temperature and 32°C ambient temperature

(c) Performance assuming R404A at -35°C condensing temperature and -10°C ambient temperature

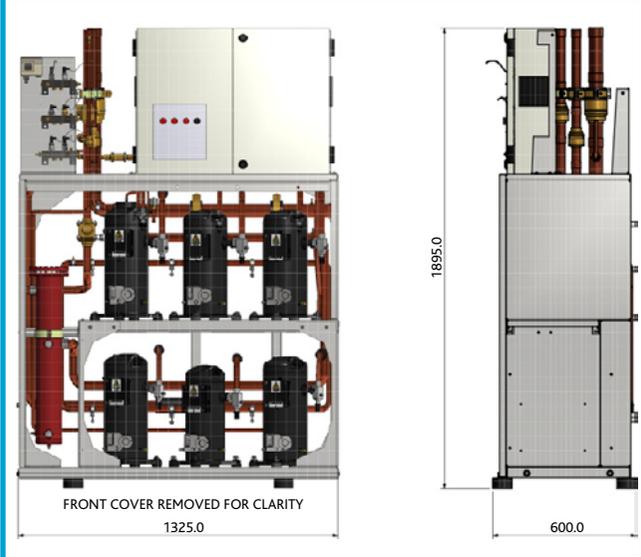
(d) For maximum number of compressors

Classic Mini and Classic Maxi Internal

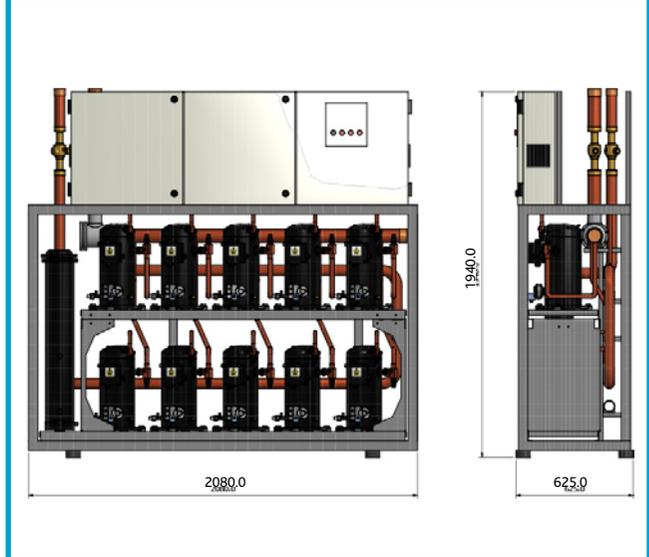
A – Classic Mini Internal (extra small)



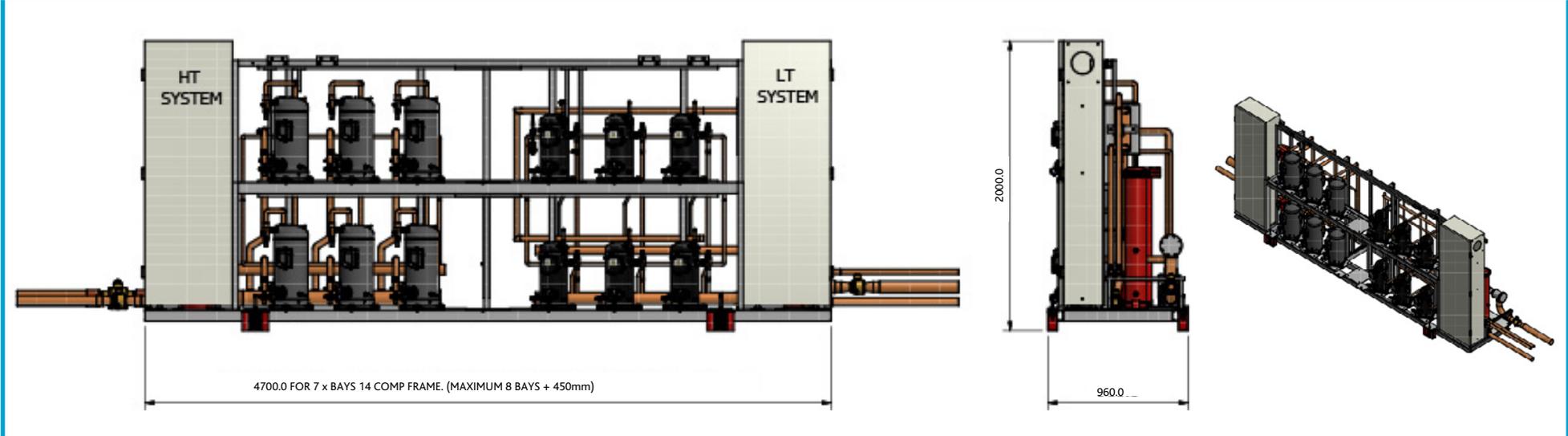
B – Classic Mini Internal (small)



C – Classic Maxi Internal (medium)



D – Classic Maxi Internal (large)



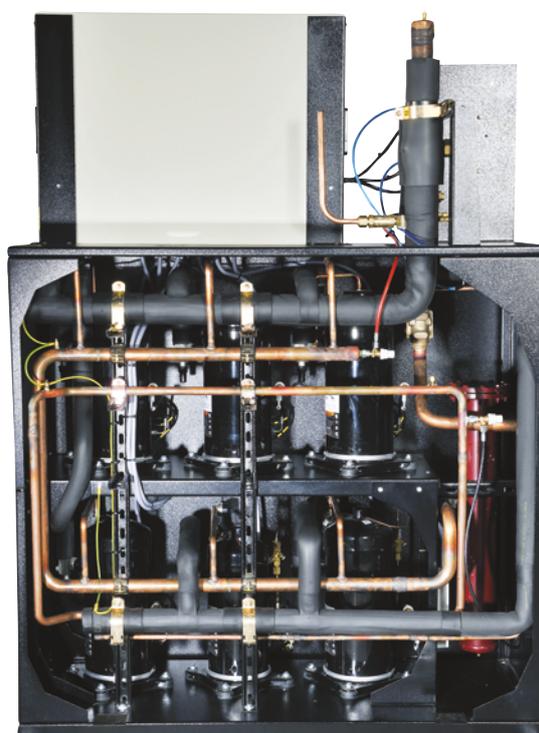
Classic Mini Internal

This HFC single or dual temperature plant can be configured with between 2 and 6 compressors depending on cooling requirements. The plant is designed for easy installation in a plant room or where space dictates a back of house area, and is fitted with anti-vibration mounts as standard, and can be further specified with cladding panels.

Our Classic Mini Internal plant benefits from a coalescing oil separator and electronic oil regulators. The oil separator works by reclaiming oil from the compressors and feeding it back into the oil regulators, helping to reduce inefficiencies in the cabinets and associated service costs. The plant's oil regulators stop the compressors from running if the oil levels run low, preventing expensive compressor failures.

As with all of our plant solutions, the Classic Mini Internal is pre-piped, commissioned, strength tested and CE marked, and has been assembled with minimal brazed connections reducing leak potential and manufacturing time.





Key Features

- Designed for easy installation in plant or stock room
- Suitable for convenience and small supermarket retail applications
- Single or dual temperature configuration
- Full PLC back up control
- Remote 30ltr receiver set
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Integral control panel wired in tri-rated cable with 24V SELV control system
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Automatic reset to primary controller
- Door interlocked isolator with large capacity terminals
- Robust construction with high quality powder coated finish

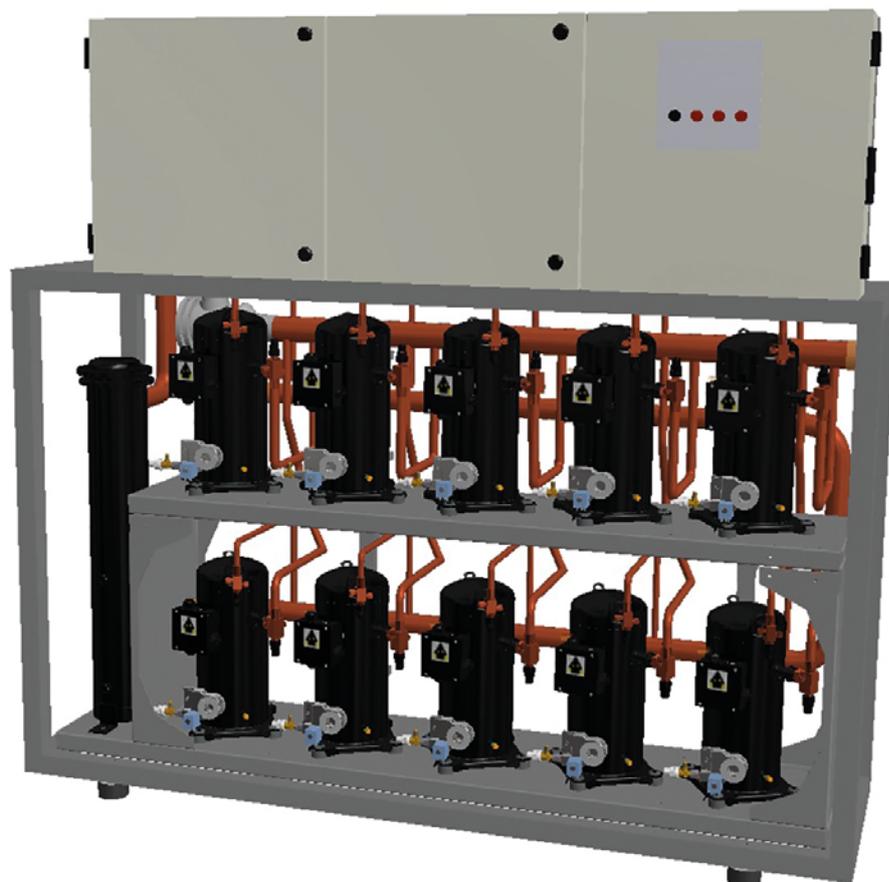
Classic Maxi Internal

The Classic Maxi Internal offers a solution for stores with larger refrigeration requirements.

This HFC single or dual temperature plant can be configured with between 7 and 16 compressors depending on cooling requirements. The plant is designed for easy installation in a plant room or where space dictates a back of house area, and is fitted with anti-vibration mounts as standard.

Our Classic Maxi Internal plant benefits from a coalescing oil separator and electronic oil regulators. The oil separator works by reclaiming oil from the compressors and feeding it back into the oil regulators, helping to reduce inefficiencies in the cabinets and associated service costs. The plant's oil regulators stop the compressors from running if the oil levels run low, preventing expensive compressor failures.

As with all of our plant solutions, the Classic Maxi Internal is pre-piped, commissioned, strength tested and CE marked, and has been assembled with minimal brazed connections reducing leak potential and manufacturing time.





Key Features

- Designed for easy installation in plant or stock room
- Suitable for convenience and small supermarket retail applications
- Single or dual temperature configuration
- Full PLC back up control
- Remote 60, 80 and 110ltr receiver sets
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Integral control panel wired in tri-rated cable with 24V SELV control system
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Automatic reset to primary controller
- Robust construction with high quality powder coated finish

Classic Mini and Classic Maxi Housed

At Space Engineering Services, we have been building and developing refrigeration solutions since 1992, and our products have been constantly evolving to meet the changing needs of our customers.

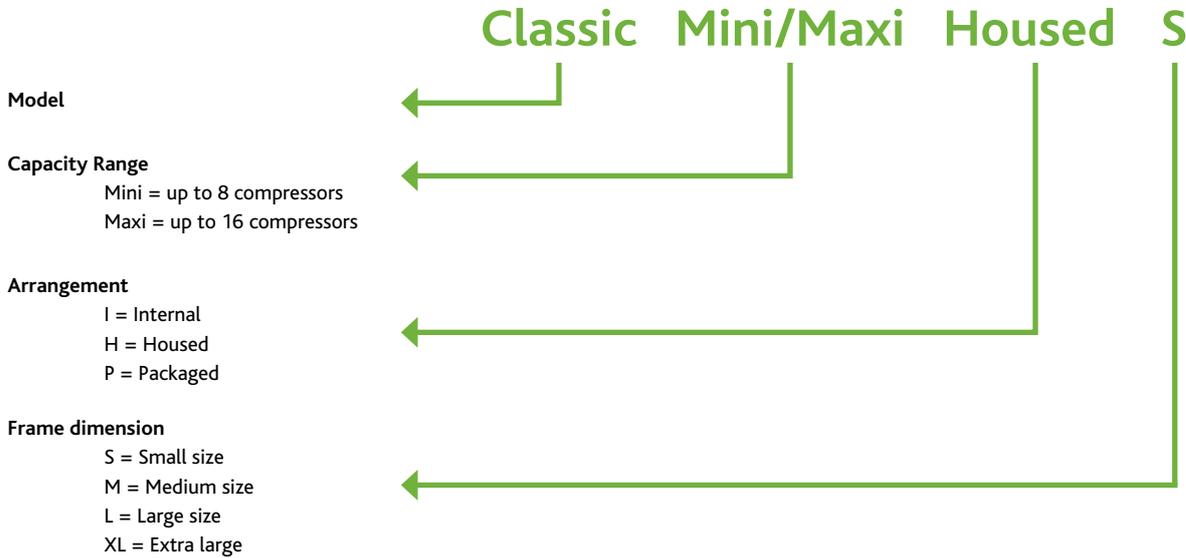
Our expertise, which we have honed over the last 22 years, has enabled us to lower build costs, whilst raising the reliability of our plant solutions as well as lowering leak potential. We have a skilled Research and Development team with a wealth of knowledge which work on site with our plant manufacturing teams delivering innovation to every plant solution. We have high volume plant manufacturing capabilities, and can also deliver smaller quantities which are bespoke to suit the needs of our customers.

The Classic HFC single or dual temperature housed frames can be configured with between 2 to 16 compressors depending on cooling requirements. The plant is designed for easy installation in external locations where space is restricted.

The external application of the Classic Housed not only helps increase trading or stock room space, but is ideal for sites without a specific plant room.

The double-skinned enclosure helps to reduce noise levels, and makes the plant both strong and durable.

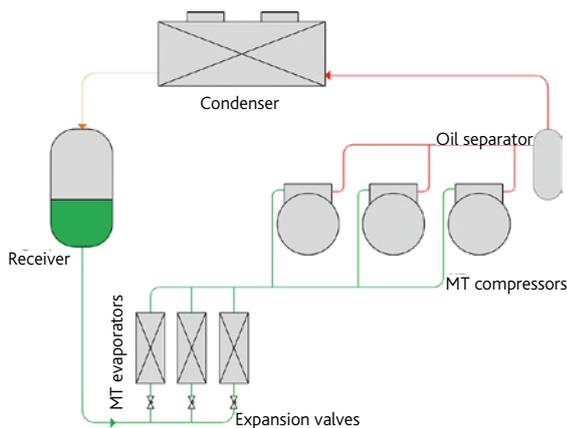
The Classic Housed range can be supplied with either scroll or reciprocating compressor technology.



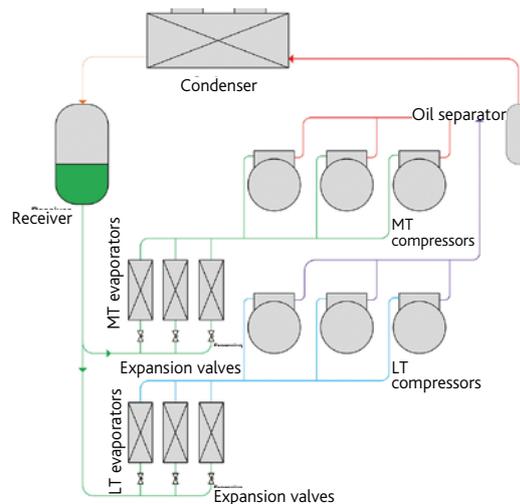
System Features

- Pre-formed copper piping with minimal joints to reduce leak potential
- Designed for easy internal or external installation
- Suitable for convenience and small supermarket retail applications
- Modular compressor configuration means a wide application range
- Single or dual temperature configuration
- Full PLC backup feature on the control panel for overcapacity in high ambient conditions
- Remote receiver in 30, 60, 80 & 110ltr volume options
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Option for receiver to be fitted and pre-piped to condenser
- Integral control panel
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Fully enclosed ventilation and lighting
- Double-skinned, making it strong and durable
- Robust construction with high quality powder coated finish

Single System



Dual System



System Details

Housed	Refrigerant ^(a)	HFC	HFC	HFC	HFC
	Model	Mini	Mini	Maxi	Maxi
	System	Single/Dual	Single/Dual	Single/Dual	Single/Dual
	Max n.° of compressors	6	8	10	16
	MT capacity - SINGLE [kW] ^(b)	20-60	60-80	80-100	100-160
	MT capacity - DUAL [kW] ^(b)	10-50	10-70	10-90	10-150
	LT capacity - DUAL [kW] ^(c)	5-25	5-35	5-45	5-75
	Condenser arrangement	Remote	Remote	Remote	Remote
	Compressor frame dimensions	Small	Medium	Medium	Large ^(f)
	Length [mm]	1557	2301	2301	6200
	Width [mm] ^(d)	625 + 805	1100 + 805	1100+805	3000
	Height [mm]	1935	2080	2080	2350
	Weight [kg] ^(e)	560	1050	1150	8600

(a) HFC refrigerants: R404A / R4071

(b) Performance assuming R404A at -10°C condensing temperature and 32°C ambient temperature

(c) Performance assuming R404A at -35°C condensing temperature and -10°C ambient temperature

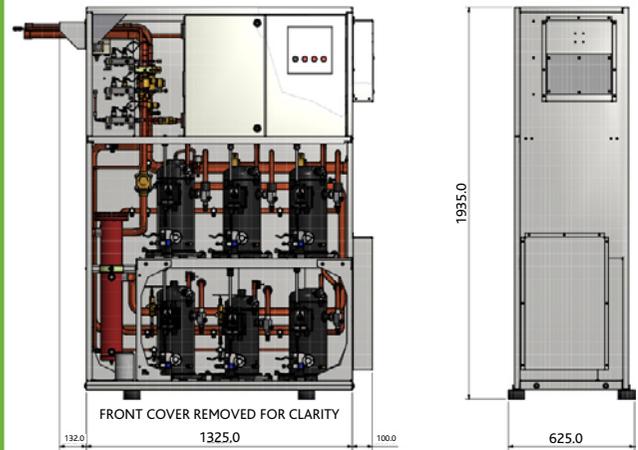
(d) Weather shield optional. Dimension of 805 m

(e) For maximum number of compressors

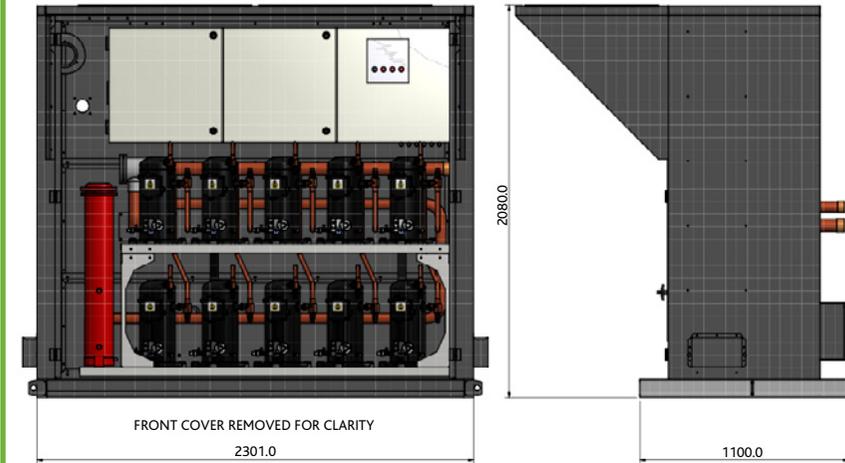
(f) Dual housing

Classic Mini and Classic Maxi Housed

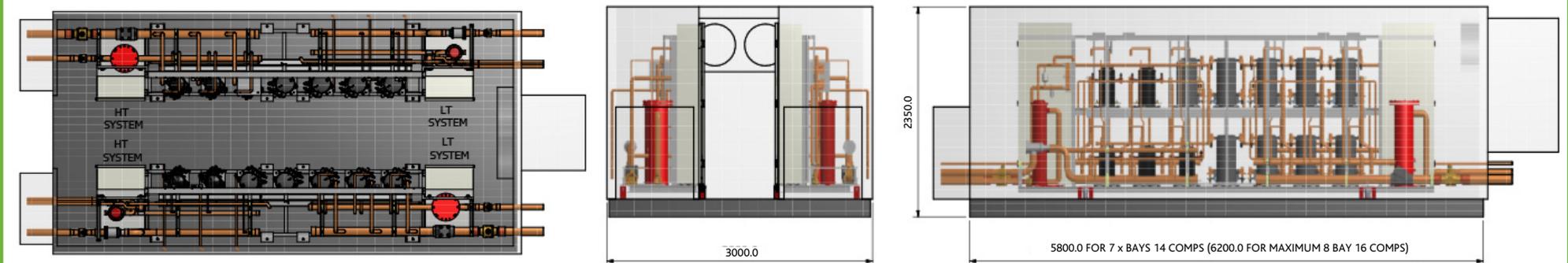
A – Classic Mini Housed (small)



B – Classic Maxi Housed (medium)



C – Classic Maxi Housed (large)



Classic Mini Housed

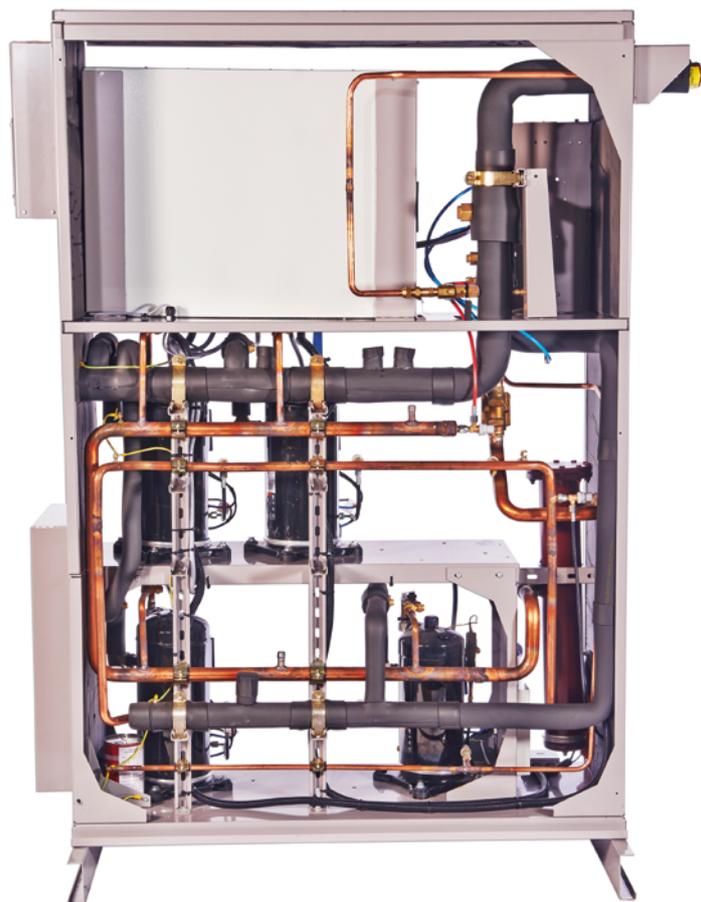
The Classic Mini Housed is the smallest of our plant solutions and a cost effective refrigeration unit for convenience store users with smaller refrigeration requirements.

This HFC single or dual temperature plant can be configured with between 2 and 6 compressors depending on cooling requirements. The plant is designed for easy installation primarily for external locations but can easily be installed for low noise applications within a plant room or where space dictates a back of hour area, and is fitted with anti-vibration mounts as standard.

Our Classic Mini Housed plant benefits from a coalescing oil separator and electronic regulators. The oil separator works by reclaiming oil from the compressors and feeding it back into the oil regulators, helping to reduce inefficiencies in the cabinets and associated service costs. The plant's oil regulators stop the compressors from running if the oil levels run low, preventing expensive compressor failures.

As with all of our plant solutions, the Classic Mini Housed is pre-piped, commissioned, strength tested and CE marked, and has been assembled with minimal brazed connections reducing leak potential and manufacturing time.





Key Features

- Designed for easy installation externally or in a plant or stock room
- Suitable for convenience and small supermarket retail applications
- Helps free up valuable space on the store floor
- Single or dual temperature configuration
- Full PLC back up control
- Remote 30ltr receiver set
- Coalescing high pressure oil separator
- Electronic high pressure oil regulator for each compressor
- Integral control panel wired in tri-rated cable with 24V SELV control system
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Automatic reset to primary controller
- Door interlocked isolator with large capacity terminals
- Full clad weather proof assembly with intake and extract ventilation
- Robust construction with high quality powder coated finish

Classic Maxi Housed

The Classic Maxi Housed offers a solution for stores with larger refrigeration requirements where internal plant or stock room space is restricted.

This HFC single or dual temperature plant can be configured with between 7 and 16 compressors depending on cooling requirements. The plant is designed for easy installation, primarily in external locations.

Our Classic Maxi Housed plant benefits from a coalescing oil separator and electronic oil regulators. The oil separator works by reclaiming oil from the compressors and feeding it back into the oil regulators, helping to reduce inefficiencies in the cabinets and associated service costs. The plant's oil regulators stop the compressors from running if the oil levels run low, preventing expensive compressor failures.

As with all of our plant solutions, the Classic Maxi Housed is pre-piped, commissioned, strength tested and CE marked, and has been assembled with minimal brazed connections reducing leak potential and manufacturing time.





Key Features

- Designed for easy installation externally
- Suitable for convenience and small supermarket retail applications
- Helps to free up valuable space in store
- Single or dual temperature configuration
- Full PLC back up control
- Remote 60, 80 and 110ltr receiver sets
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Integral control panel wired in tri-rated cable with 24V SELV control system
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Automatic reset to primary controller
- Door interlocked isolator with large capacity terminals
- Full clad weather proof assembly with intact and extract ventilation
- Robust construction with high quality powder coated finish

Classic Mini and Classic Maxi Packaged

At Space Engineering Services, we have been building and developing refrigeration solutions since 1992, and our products have been constantly evolving to meet the changing needs of our customers.

Our expertise, which we have honed over the last 22 years, has enabled us to lower build costs, whilst raising the reliability of our plant solutions as well as lowering leak potential. We have a skilled Research and Development team with a wealth of knowledge which work on site with our plant manufacturing teams delivering innovation to every plant solution. We have high volume plant manufacturing capabilities, and can also deliver smaller quantities which are bespoke to suit the needs of our customers.

The Classic Packaged range, which has been developed, tried, tested and refined over more than a decade, offers an HFC packaged plant solution designed for both small and large refrigeration users.

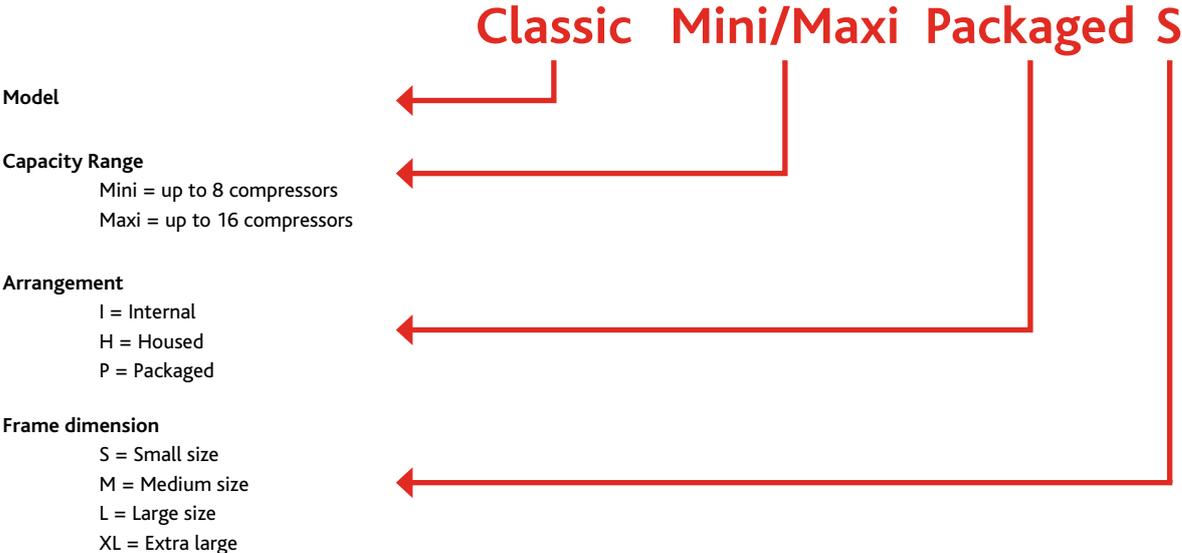
These models have been designed specifically for external applications and are pre-piped, pre-commissioned and in-manufacture tested to reduce on-site installation time and cost.

These Classic HFC single or dual temperature packaged units can be configured with between 2 to 16 compressors depending on cooling requirements. The plant is designed for easy installation in external locations where space is restricted.

The external application of the plant helps increase trading or stock room space, making it ideal for sites without a specific plant room.

The double-skinned enclosure helps reduce noise levels, and makes the plant both strong and durable.

The Classic Packaged range can be supplied with either scroll or reciprocating compressor technology.

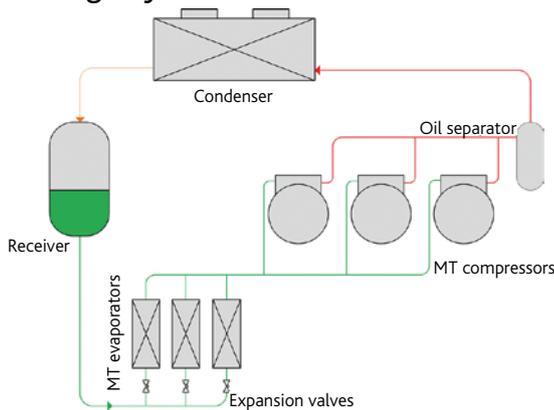


Classic Mini and Classic Maxi Packaged

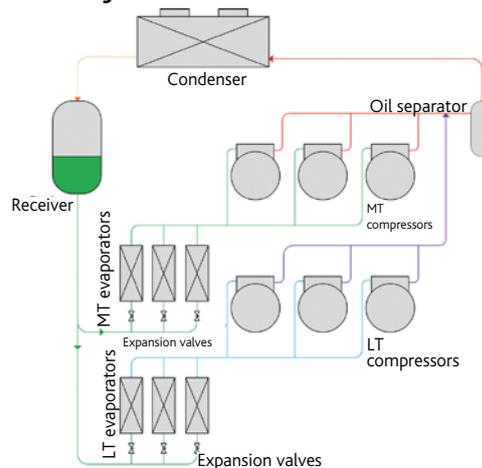
System Features

- Pre-formed copper piping with minimal joints to reduce leak potential
- Designed for easy internal or external installation
- Suitable from convenience to large format supermarket retail applications
- Modular compressor configuration means a wide application range
- Single or dual temperature configuration
- Full PLC back up feature on the control panel for overcapacity in high ambient conditions
- Integral HP receiver in 30, 60, 80 and 110ltr volume options
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Options for receiver to be fitted and pre-piped to condenser
- Integral control panel
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Full enclosure ventilation and lighting
- EC Fan motors
- Double-skinned therefore strong and durable
- Robust construction with high quality powder coated finish

Single System



Dual System



System Details

Packaged	Refrigerant ^(a)	HFC	HFC	HFC	HFC
	Model	Mini	Mini	Maxi	Maxi
	System	Single/Dual	Single/Dual	Single/Dual	Single/Dual
	Max n.° of compressors	4	6	8	10
	MT capacity - SINGLE [kW] ^(b)	20-40	40-60	60-80	80-100
	MT capacity - DUAL [kW] ^(b)	10-30	10-50	10-70	10-90
	LT capacity - DUAL [kW] ^(c)	5-15	5-25	5-35	5-45
	Condenser arrangement	Coupled	Coupled	Coupled	Coupled
	Compressor frame dimensions	Extra Small	Small	Medium	Large
	Length [mm]	1850	1150	2301	2301
Width [mm] ^(d)	1900	3656	1137	4460 + 805	
Height [mm]	1500	2220	1625	2080	
Weight [kg] ^(e)	600	1450	1730	2050	

(a) HFC refrigerants: R404A / R4071

(b) Performance assuming R404A at -10°C condensing temperature and 32°C ambient temperature

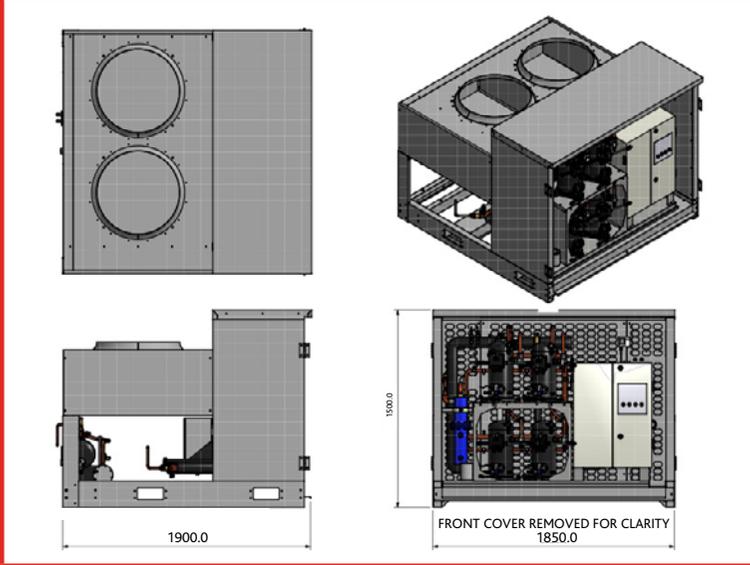
(c) Performance assuming R404A at -35°C condensing temperature and -10°C ambient temperature

(d) Weather shield optional. Dimension of 805 m

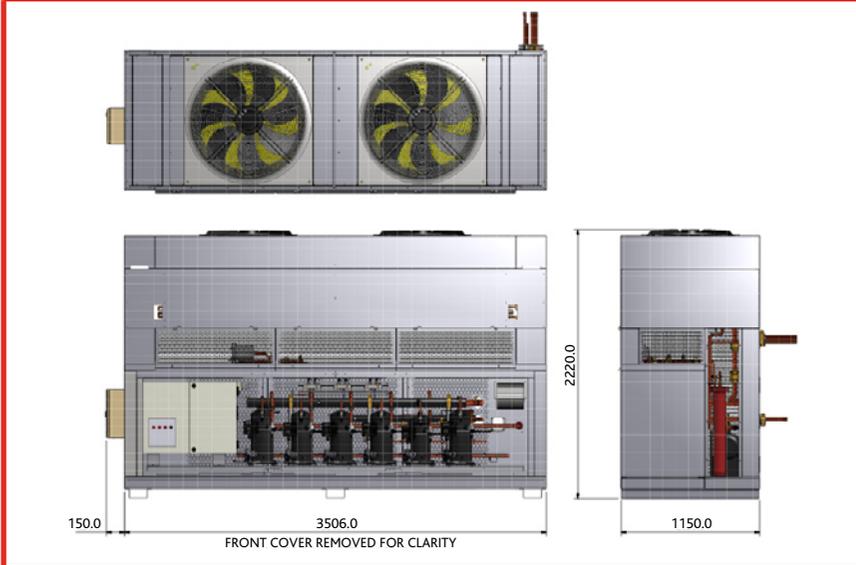
(e) For maximum number of compressors

Classic Mini and Classic Maxi Packaged

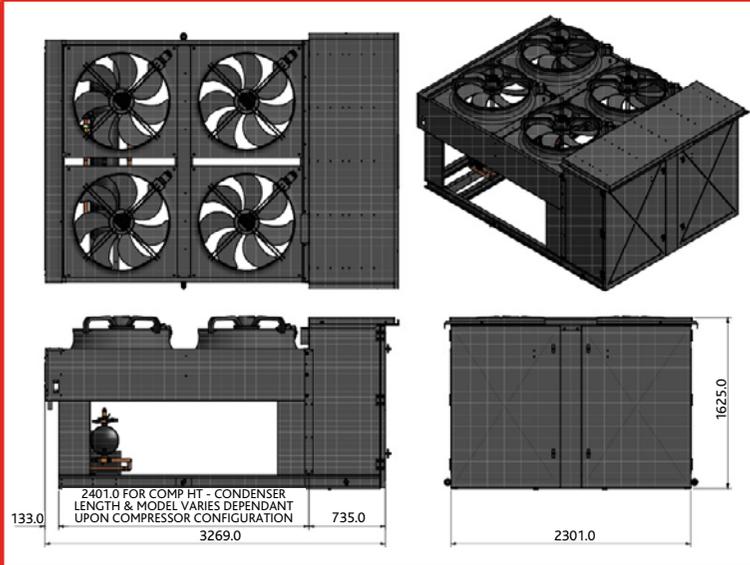
A – Classic Mini Packaged (extra small)



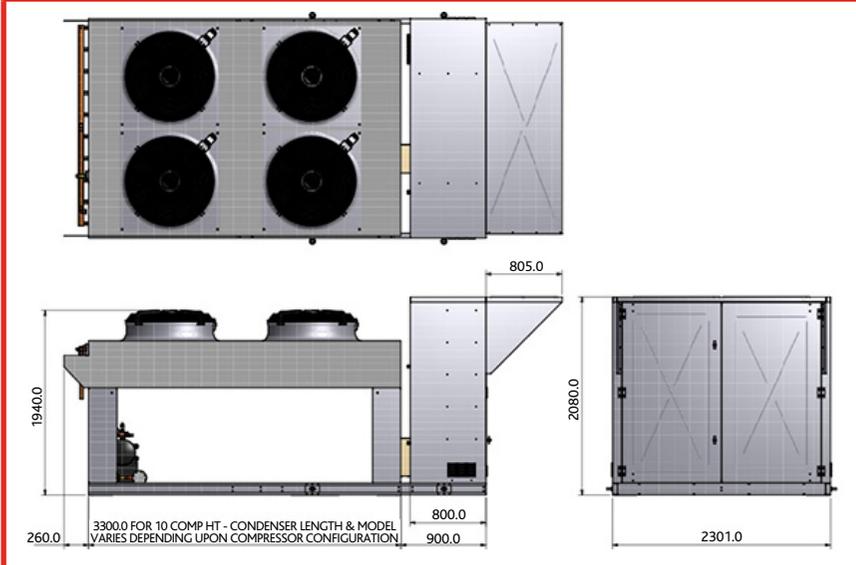
B – Classic Mini Packaged (small)



C – Classic Maxi Packaged (medium)



D – Classic Maxi Packaged (large)



Classic Mini Packaged

The Classic Mini Packaged is a HFC packaged plant solution for the convenience market and smaller refrigeration users. The external plant comes fitted with all its components in one box; compressors, controls and condenser, which helps to free up valuable space.

The Classic Mini Packaged is available in a single or dual temperature configuration, and is CE marked. The plant enclosure has a robust construction with a high quality powder coated finish and is sound attenuated. In addition, the high efficiency extract system works to remove heat from around the compressors.

The EC fans have a capped speed for normal operation and a full PLC backup for overcapacity in high ambient conditions, making them an energy efficient alternative.

The plant benefits from a coalescing oil separator which is 98.5% efficient and electronic regulators. The oil separator works by reclaiming oil from the compressors and feeding it back into the oil regulators, helping to reduce inefficiencies in the cabinets and associated service costs. The plant's electronic oil regulators stop the compressors from running if the oil levels run low, preventing expensive compressor failures.





Key Features

- Pre-formed copper piping with minimal joints to reduce leak potential
- Designed for easy external installation
- Suitable for all format supermarket retail applications
- Modular compressor configuration means a wide application range
- Single or dual temperature configuration
- Full PLC back up feature on the control panel for overcapacity in high ambient conditions
- Remote receiver in 30, 60, 80 and 110ltr volume options
- Coalescing high pressure oil separator
- Electronic high pressure oil level regulator for each compressor
- Options for receiver to be fitted and pre-piped to condenser
- Integral control panel
- Can be fitted with any manufacturer or type of primary control or compressor
- Supplied with anti-vibration mounts as standard
- Full enclosure ventilation and lighting
- EC fan motors
- Double-skinned, making it both strong and durable
- Robust construction with high quality powder coated finish

Classic Maxi Packaged

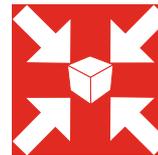
The Classic Maxi Packaged is an HFC packaged plant solution for larger refrigeration format stores. The external plant comes fitted with all its components in one box; compressors, controls and condenser, which helps to free up valuable space.

The Classic Maxi packaged is available in a single or dual temperature configuration, and is CE marked. The plant enclosure has a robust construction with a high quality powder coated finish and is sound attenuated and the high efficiency extract system works to remove heat from around the compressors.

The EC fans have a capped speed for normal operation and a full PLC backup for overcapacity in high ambient conditions; making them an energy efficient alternative.

The plant benefits from a coalescing oil separator which is 98.5% efficient and electronic regulators. The oil separator reclaims oil from the compressors and feeding it back into the oil regulators, helping to reduce inefficiencies in the cabinets and associated service costs. The plant's electronic oil regulators stop the compressors from running if the oil levels run low, preventing expensive compressor failures.





Key Features

- Pre-formed copper piping with minimal joints to reduce leak potential
- Designed for easy external installation
- Suitable for all format supermarket retail applications
- Modular compressor configuration means a wide application range
- Single or dual temperature configuration
- Full PLC back up feature on the control panel for overcapacity in high ambient conditions
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For further information on how Space Engineering Services can help your business, please contact:
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