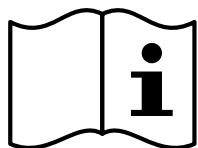




HRV Cool Plus Cooler II Frame



Warnings, Safety Information and Guidance




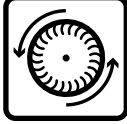

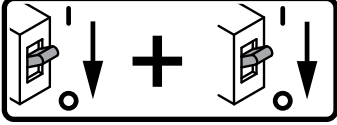
Important Information

Important: read these instructions fully before the installation of this appliance

1. Installation of the appliance and accessories must be carried out by a qualified and suitable competent person and be carried out in clean, dry conditions where dust and humidity are at minimal levels.
2. This manual covers the installation of the Heat Recovery Ventilation (HRV) unit and Cooling unit
3. All wiring must conform to current I.E.E. Wiring Regulations and all applicable standards and Building Regulations.
4. Inspect the appliances and electrical supply cords. If a supply cord is damaged, it must be replaced by the manufacturer, their service agent, or similarly qualified persons in order to avoid a hazard.
5. The units are supplied with a mains rated 3 core flexible cord (PVC sheathed, brown, blue and green/yellow 0.75mm²).
6. The appliance must be connected to a local double pole isolation switch with a contact separation of at least 3mm.
7. The appliance must be earthed.
8. HRV4.25 *Q Plus* unit is suitable for 230V ~ 50/60Hz single phase with a fuse rating of 5A. The Cool Plus unit is suitable for 230V ~ 50Hz single phase with a fuse rating of 8A.
9. Control, Boost & communication cable access is via the fitted cable gland(s) which are suitable for Ø3- 6mm cable.
10. Control, Boost & communication cables - Unshielded 4 Core minimum 18-24AWG Stranded, Tinned Copper. Control Cables must not be twisted pairs.
11. All Control, Boost & Communication cables should not be placed within 50mm or on the same metal cable tray as any 230V~ lighting or power cables.
12. Ensure all cable glands are fully tightened.
13. The units must be stored in a clean and dry environment.
14. Do not install the appliance in areas where the following may be present or occur;
 - Excessive oil or a grease laden atmosphere,
 - Corrosive or flammable gases, liquids, or vapours,
 - Ambient temperatures above 40°C or below -5°C,
 - Humidity levels above 90% or is a wet environment.
15. These appliances are not suitable for installation to the exterior of the dwelling.
16. These appliances are not suitable for installation in unheated spaces.
17. These appliances can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

18. The outer casing must never be drilled, cut or altered under any circumstances.
19. Ensure that external grilles are located away from any flue outlet, in accordance with relevant Building Regulations.
20. The unit must not be connected to a tumble dryer or a cooker hood.
21. Heat recovery systems and extract fans can create negative pressures within rooms. Ensure precautions are taken to avoid negative pressure creating a back-flow of gases into the room from an open flue.
22. Ensure all ducting, condensate drain and associated pipe work is free from debris and blockages before switching on the unit.
23. The Cool Plus unit is heavy and it is advised that lifting, moving and handling of the unit is carried out by two competent people and installed using a suitable lift.
24. The Cool Plus unit is an electromechanical unit that use R32 refrigerant.
25. Please ensure when installing the Cooler Plus that the unit is kept vertical during transportation and installation and left for a minimum of 4 HOURS before switching on. If Cooler has not been stored vertically (refer to the "This Way Up" packaging label) the Cooler must not be operated for 24 HOURS following installation.
26. Ensure supply and extract airflows are kept as equal as possible when the Cool Plus unit is in operation. Too much air on the heating side could cause the cooling side heat exchanger to freeze at certain conditions. Too much air on the cooling side could cause the high-pressure relay switch to trip out regularly in certain conditions.
27. Do not damage the pipes of the refrigerant circuit.
28. Do not use the unit if damaged, contact after sales.
29. In the event of gases escaping from damaged pipework, avoid contact with eyes.

Explanation of symbols on the appliance

Symbol	Definition
	Read instruction Manual.
	Risk of Electric Shock.
	General hazard safety alert.
	Wait until all machine components have completely stopped before touching them.
	Disconnect the mains supply before removing this cover.
	<p>Disconnect the mains supply before removing this cover.</p> <p>Before obtaining access to terminals or removing this cover, all supply circuits must be disconnected.</p>

Titon Recommend:

- Any flexible ducting should only be used for final terminations only and must be a maximum of 300m long and be pulled taut, and straight.
- A minimum distance of 200mm between the HRV unit and any sharp bends in duct work.
- All ducting should be insulated to reduce the possibility of condensation forming.
- Where a duct extends externally above roof level the section above the roof should be insulated or a condensate trap should be fitted just below roof level.
- All ducts within the building heated envelope between the external terminals and the unit's From Atmosphere and To Atmosphere ports should be insulated and wrapped additionally with a vapour barrier outside the insulation.
- Where duct pass through any fire barriers or walls, they must comply with the requirements of local Building Regulations.
- A ducting condensate drain must be fitted to vertical To Atmosphere duct work.
- Ducting must be installed in such a way that resistance to airflow is minimised.
- Ducting connected to the From Atmosphere & To Atmosphere ports, must be to/from the external air outside the building envelope.
- Duct joints to the unit's duct ports must be fixed using a method that ensures a long term seal is achieved. If using a short piece of flexible ducting secure using a hose clamp, do not over tighten hose clamp; as overtightening may distort and reduce the unit's port.
- A minimum distance of 2m exists between the external supply and exhaust terminals.

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Units

List of Products

This Manual is for the following Products

HRV Cool Plus Floor Version.	TP756
Floor Stand Components	TP758
HRV Cool Plus Wall Version	TP757
Wall Mount Components	TP759
HRV Cool Plus Wall	
Washing Machine Version.	TP762
Wall Mount Components	TP761

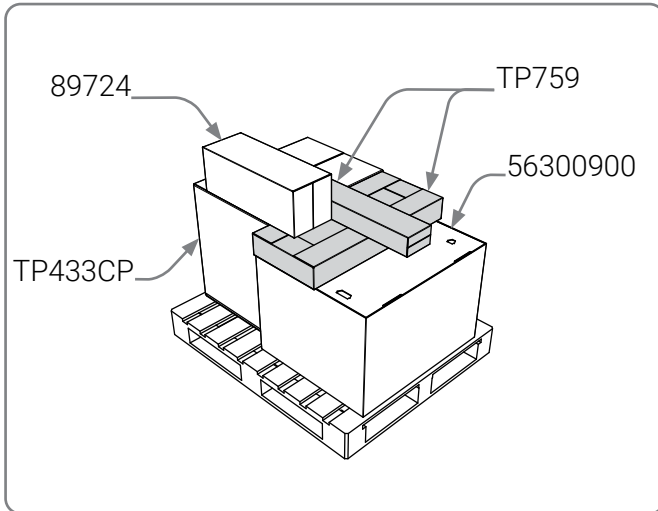


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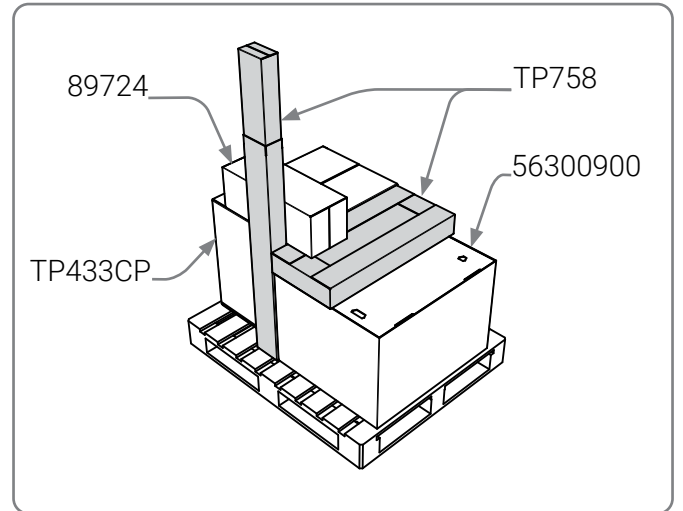
Product Information

Packaging Contents

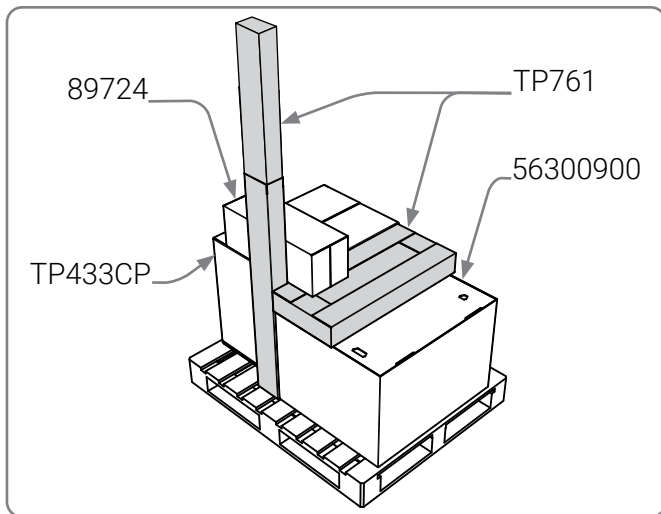
Inspect the unit when taking delivery. Each unit is supplied with various accessories. Check the unit for damage and that all accessories have been supplied.



TP757 Cool Plus delivered items Wall



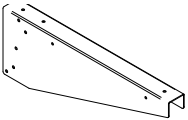
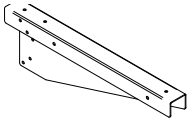


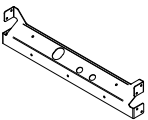
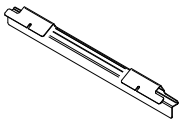
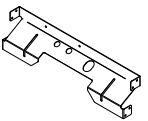
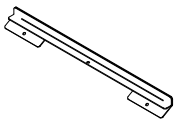
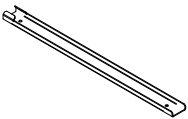
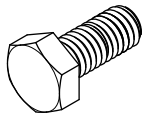


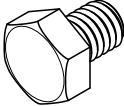


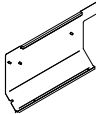
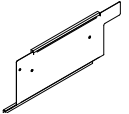
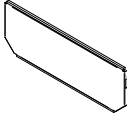
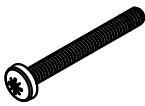


TP756 Cool Plus delivered items Floor



TP762 Cool Plus delivered items
Washing Machine

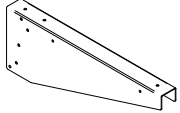
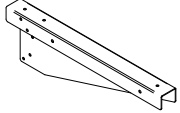


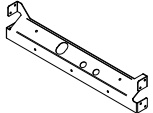
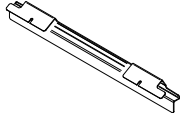
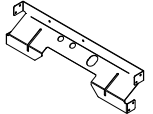
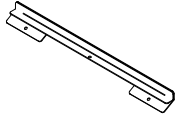
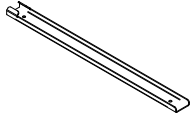
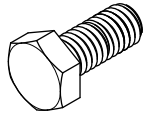

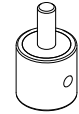
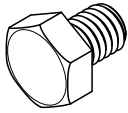


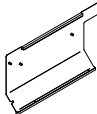
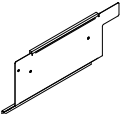
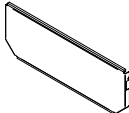
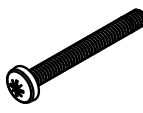


Wall Mount Components TP759

(19.5kg)

	Description / Part No.	QTY		Description / Part No.	QTY
	Cooler Support A CP1011910	1		Cooler Support B CP1011911	1
	Wall Strut LH CP1011955	1		Wall Strut RH CP1011954	1
	Wall AV Top Mounting Bracket CP1011950	1		HRV AV Top Mounting Bracket CP1011951	1
	Wall AV Bottom Bracket CP1011952	1		HRV AV Bottom Mounting Bracket CP1011792	1
	Cooler AV Runner CP1011912	2		M6x14 FF406	26
	M6 FF224	34		AV Mount BP9910371	8
	M6x8 FF355	8		M6 FF375	8
				Grommet FF433	4
	LH Duct Cover CP1011914	1		RH Duct Cover CP1011913	1
	Front Panel CP1011915	1		M5x45 FF446	4
	M5x10 Thumb Screw FF434	2		Hose Clamp 8960188	8

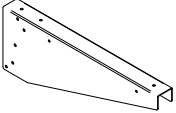
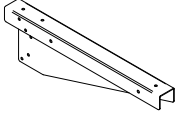

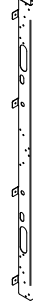
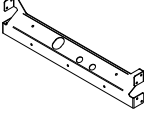
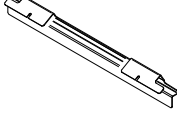
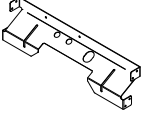
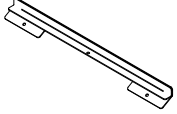
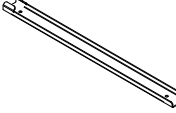
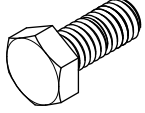


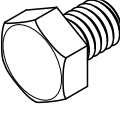


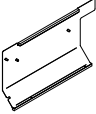
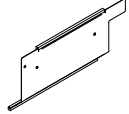
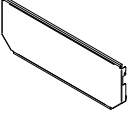
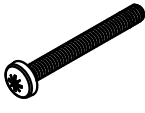


Floor Stand Components TP758

(25.5kg)

	Description / Part No.	QTY		Description / Part No.	QTY
	Cooler Support A CP1011910	2		Cooler Support B CP1011911	2
	Wall Strut LH CP1011953	1		Wall Strut RH CP1011959	1
	Wall AV Top Mounting Bracket CP1011950	1		HRV AV Top Mounting Bracket CP1011951	1
	Wall AV Bottom Bracket CP1011952	1		HRV AV Bottom Mounting Bracket CP1011792	1
	Cooler AV Runner CP1011912	2		M6x14 FF406	40
	M6 FF224	48		AV Mount BP9910371	8
	M6x8 FF355	8		M6 FF375	8
				Grommet FF433	8
	LH Duct Cover CP1011914	1		RH Duct Cover CP1011913	1
	Front Panel CP1011915	1		M5x45 FF446	4
	M5x10 Thumb Screw FF434	2		Hose Clamp 8960188	8

Floor Stand Washing Machine Components TP761

(25.5kg)

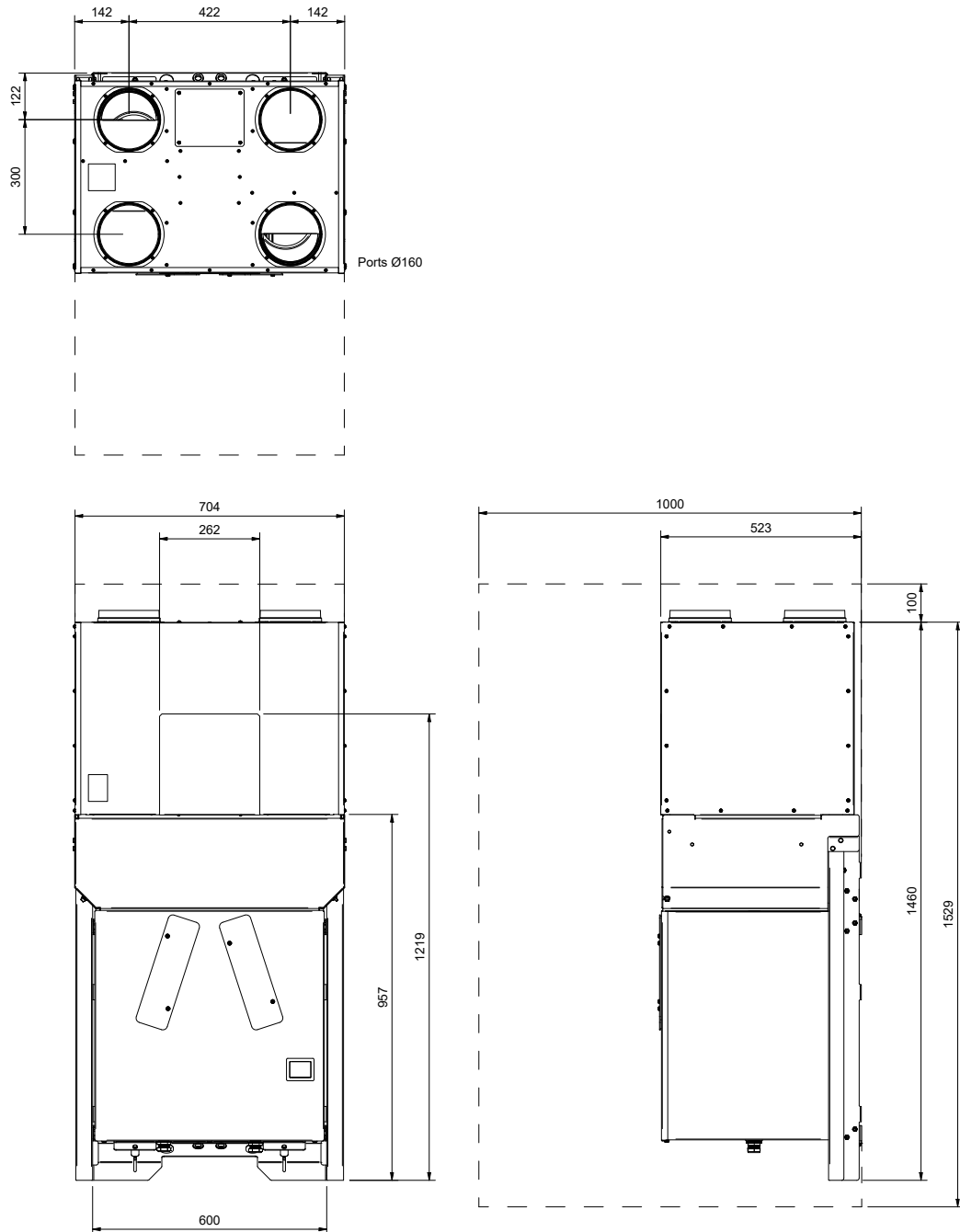
	Description / Part No.	QTY		Description / Part No.	QTY
	Cooler Support A CP1011910	2		Cooler Support B CP1011911	2
	Wall Strut LR CP1011925	1		Wall Strut LR CP1011958	1
	Wall AV Top Mounting Bracket CP1011950	1		HRV AV Top Mounting Bracket CP1011951	1
	Wall AV Bottom Brackett CP1011952	1		HRV AV Bottom Mounting Bracket CP1011792	1
	Cooler AV Runner CP1011912	2		M6x14 FF406	40
	M6 FF224	48		AV Mount BP9910371	8
	M6x8 FF355	8		M6 FF375	8
				Grommet FF433	4
	LH Duct Cover CP1011914	1		RH Duct Cover CP1011913	1
	Front Panel CP1011915	1		M5x45 FF446	4
	M5x10 Thumb Screw FF434	2		Hose Clamp 8960188	8

Units Dimensions

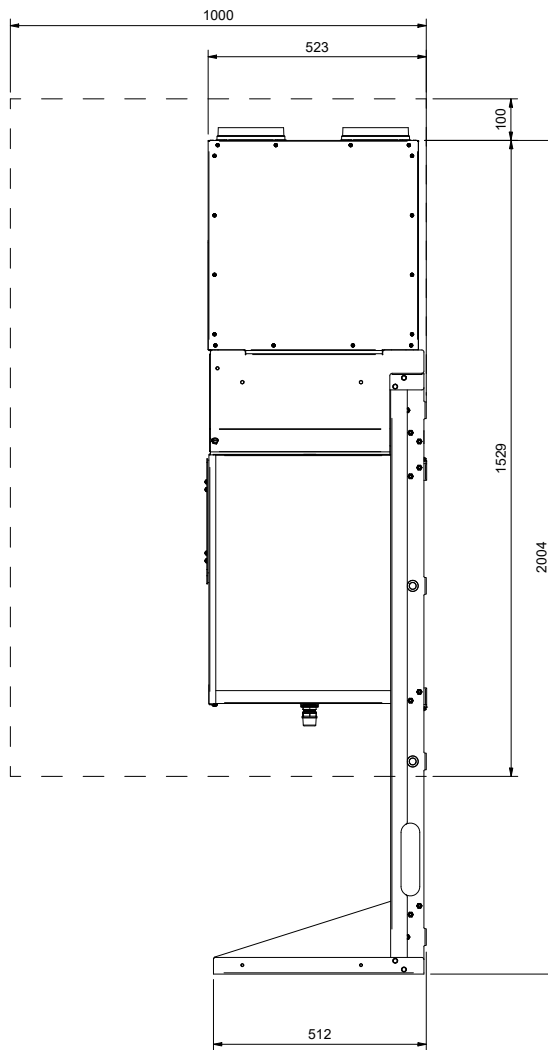
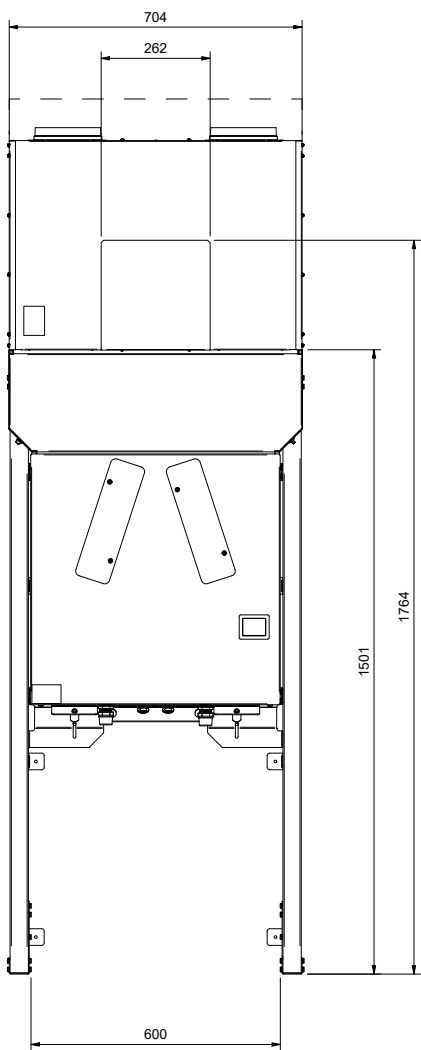
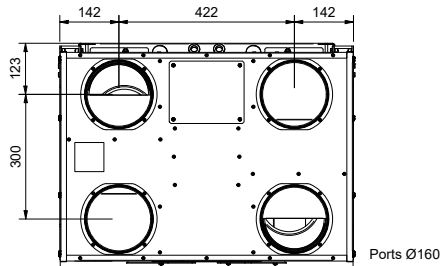
HRV Cool Plus

The following diagrams detail the overall size of the units, the duct port positions & the additional space required around the units (Service Void - - - -) to allow for commissioning and future service and maintenance.

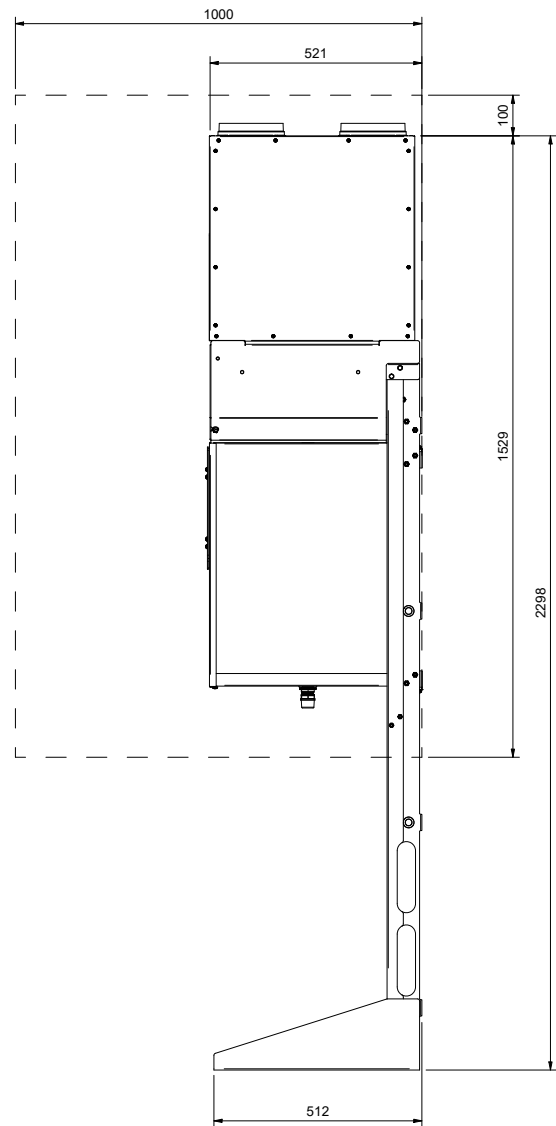
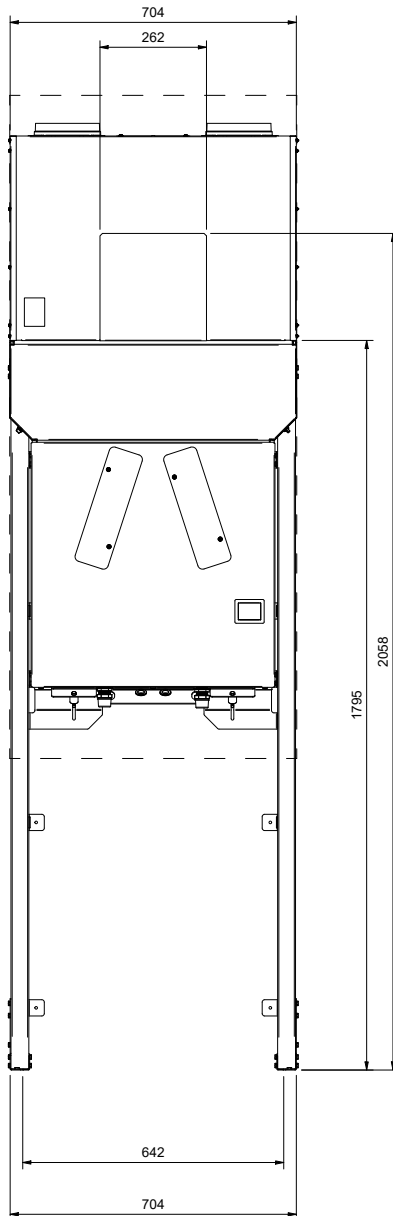
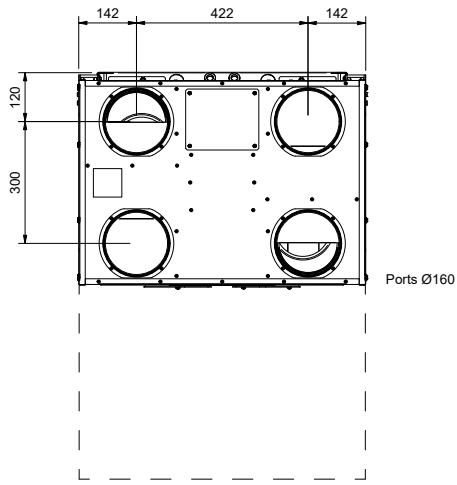
Wall Mounted Unit



Floor Standing Unit



Floor Standing Washing Machine Unit



Titon Cool Plus Cooler II Order of Installation

Frame Manual

1. Build Frame
2. Fit Frame to Wall and Floor

Units Manual

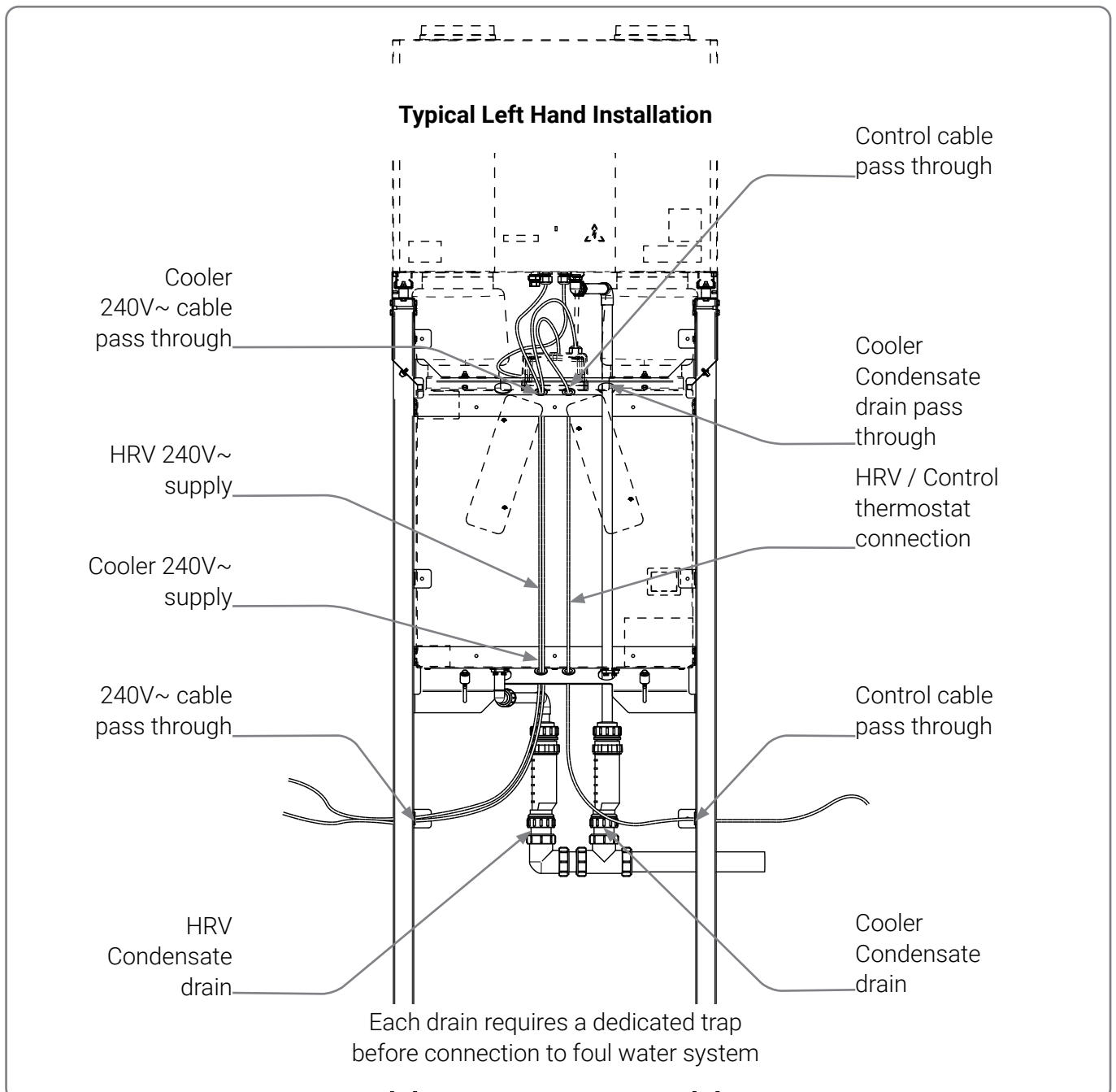
3. Determine the Handing of the installation
4. Mount Cooler II
5. Plumb Condensate Drain and Waterless Trap for Cooler II
6. Fit Stop end to unused Cooler II condensate outlet.
7. Route Cooler II Power cable through grommets
8. Route HRV's thermostat cable and other control cables, as required. (tape up out of way)
9. Fit Duct Cover Side panels
10. Mount HRV
11. Plumb HRV's Condensate drain and waterless trap
12. Fit blanking disc to unused condensate outlet.
13. Plug-in Cooler II control cable to HRV flying lead.
14. Route HRV power cable behind HRV using grommets provided
15. Complete wiring other wiring
16. Fit ducts between Cooler II and HRV; secured with hose clamps.
17. If required Remove Cooler II front cover to change to jumper Right Hand operation.
18. Fit front duct cover.
19. If required When powered up use the onboard touchscreen to change the HRV to right Hand.

Installation

Mounting:

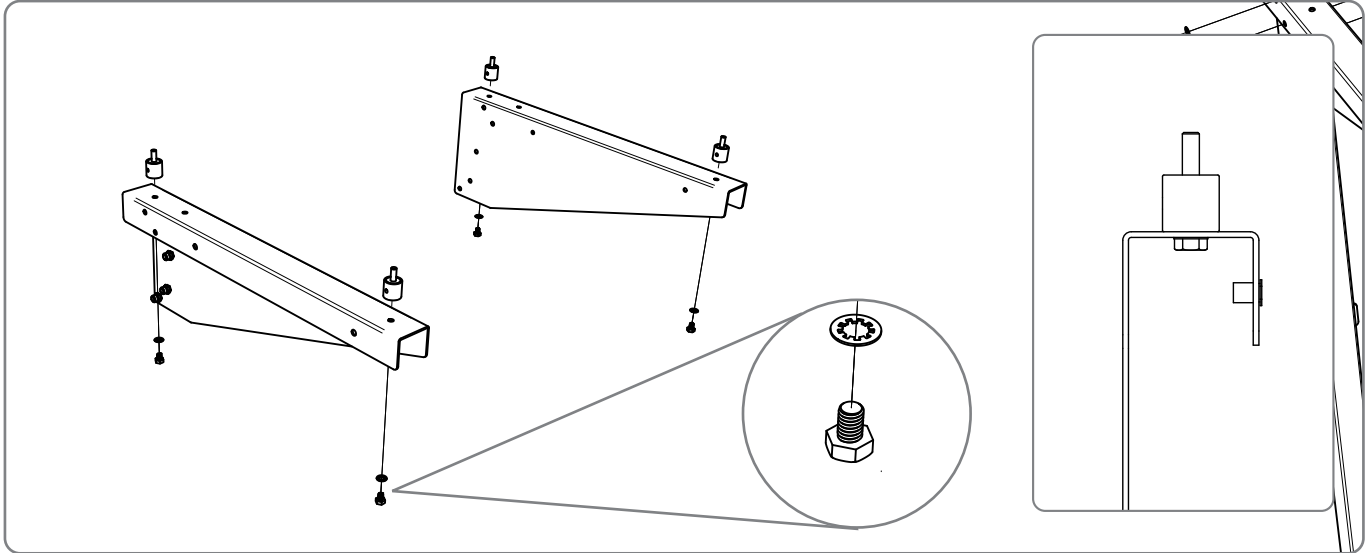
Read and observe the guidance & safety notices listed in Warnings, Safety Information and Guidance.

- Do not remove the Port Covers and protective film, until connecting ducting. Port Covers are fitted to prevent debris falling into the unit and causing blockages and damage:
- The mounting surface must be sufficiently strong to support the unit;
Dry Weights: Wall Mount 100kg, Floor Mount 108kg.
- Consider the positioning of electrical services and the Condensate Drain when siting the unit.
- Ensure there is sufficient access around the HRV *Q Plus* (Service Void - - -) for future maintenance; see Units' Dimensions Section for details.
- Do not 'box-in' the unit making access to the unit difficult for maintenance and repair. (Duct Covers are available).



Frame Assembly

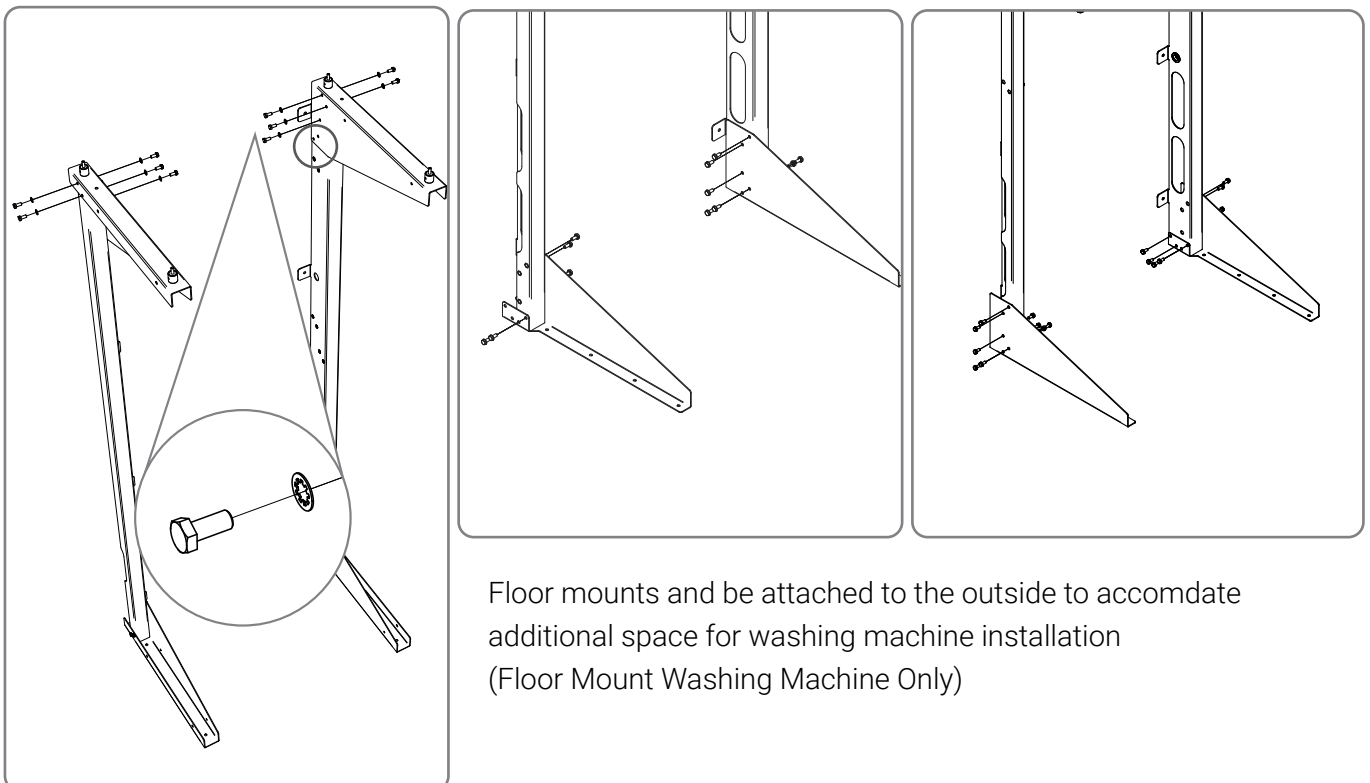
1. Fit two acoustic isolation mounts (BP9910371) to Support A (CP1011910) & two to Support B (CP1011911) using M6x8 screws (FF355) & washers (FF224) using the holes indicated.



2. Fit the Supports, with the isolation mounts, to the top of each strut
 - Wall Mount CP1011954 & CP1011955.
 - Floor Mount CP1011953 & CP1011959
 - Floor Mount Washing Machine CP1011925 & CP1011958.

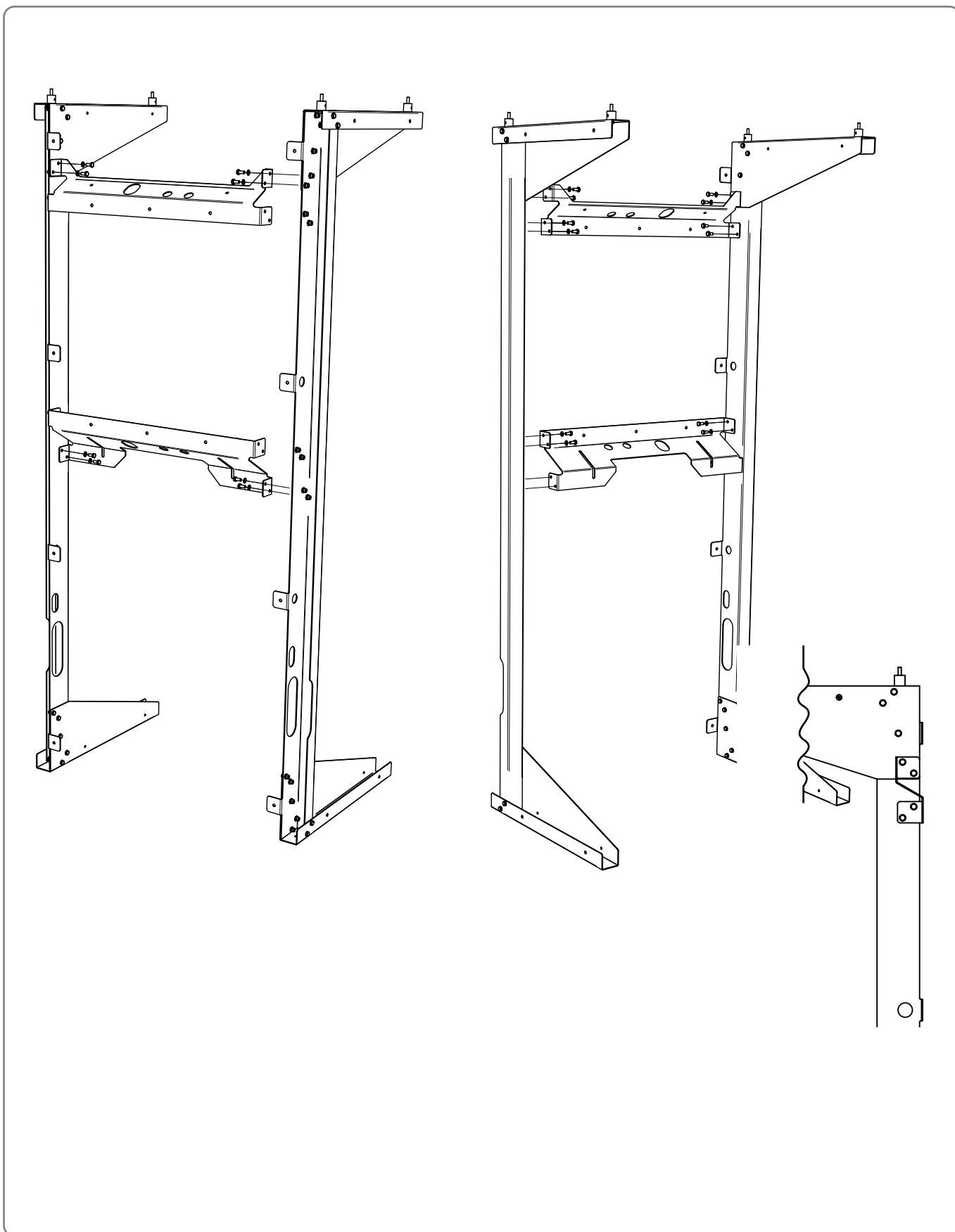
Fit two, additional supports to the bottom of the each strut for Floor Mount & Floor Mount Washing Machine using M6x14 screws (FF406) & washers (FF224)

DO NOT bolt through the highlighted holes, these four holes are used at in the next step

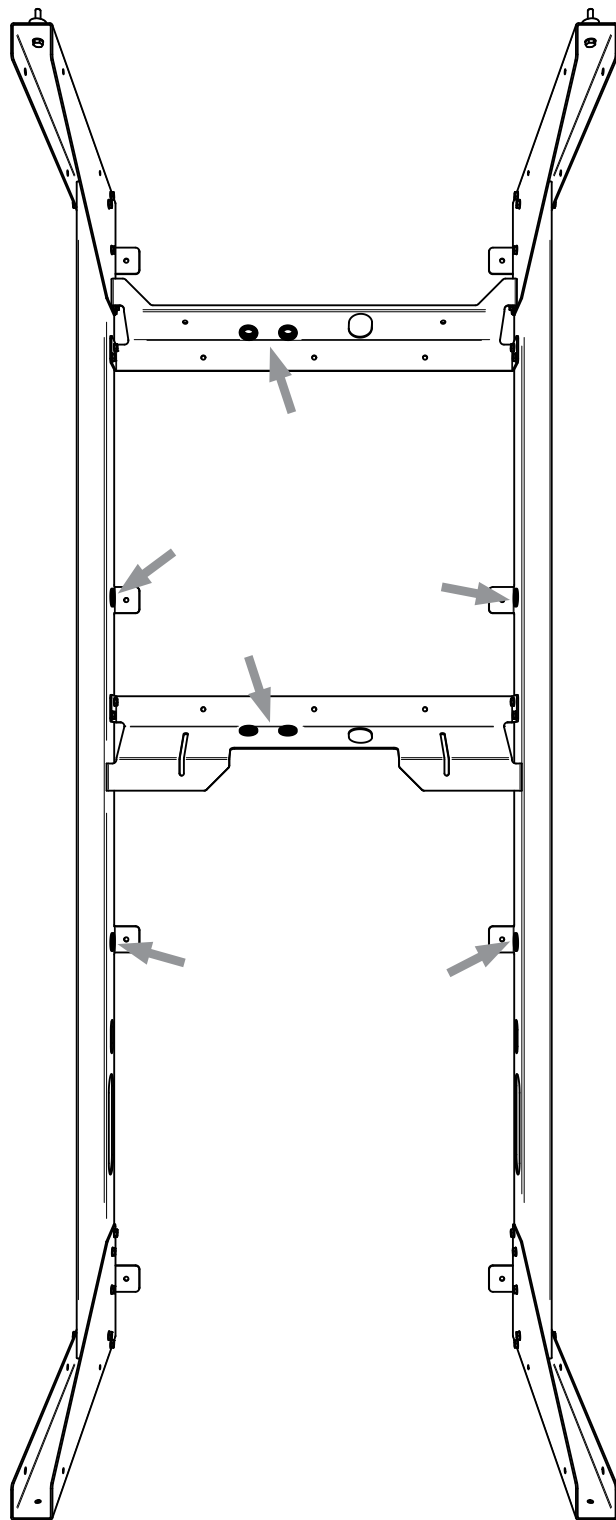


Floor mounts and be attached to the outside to accomdate additional space for washing machine installation (Floor Mount Washing Machine Only)

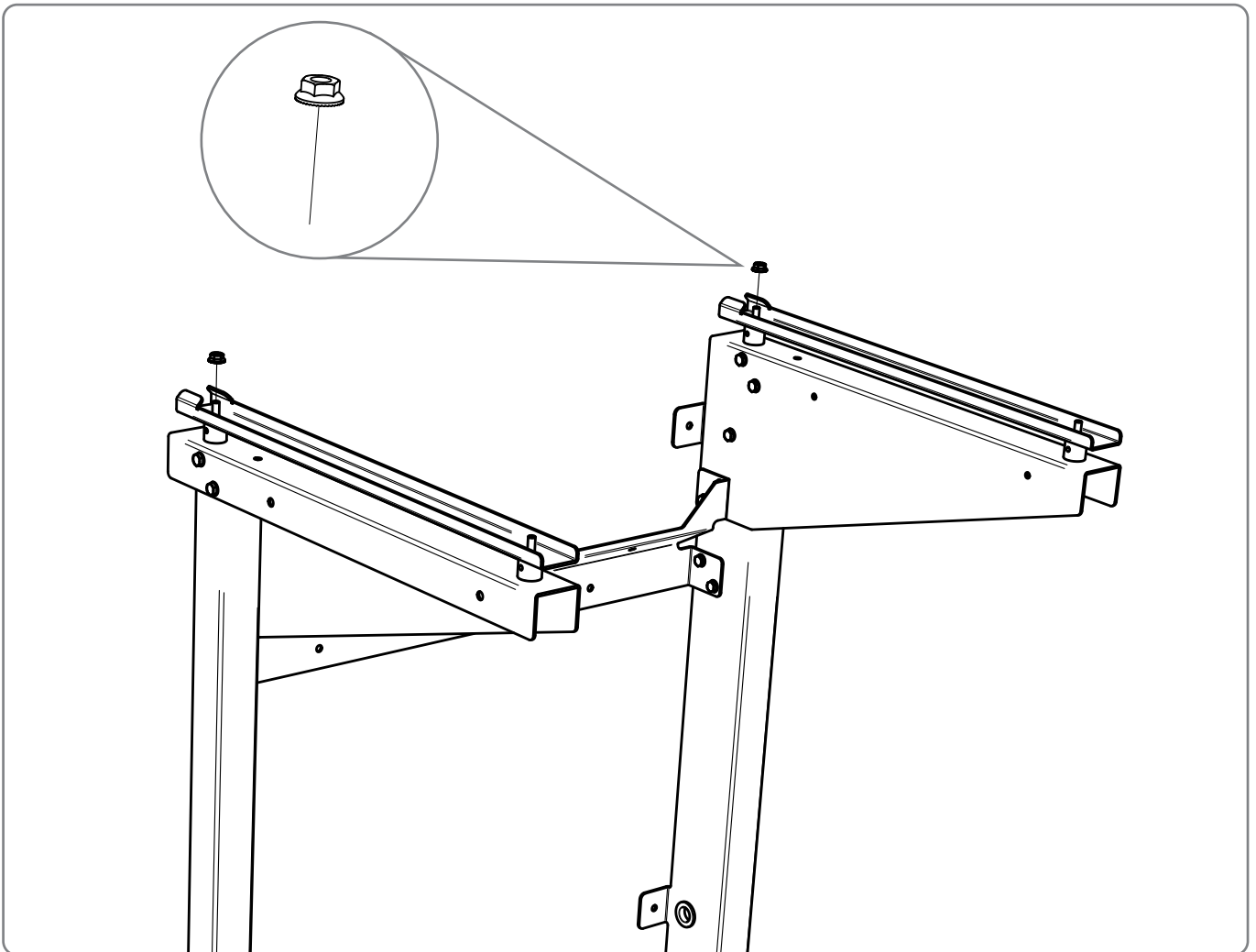
3. Attach the AV Mounting Brackets, top (CP1011950) & Bottom (CP1011952) to the Wall Struts, Use M6x14 screws (FF406) & washers (FF224), each bracket uses 8 screws.



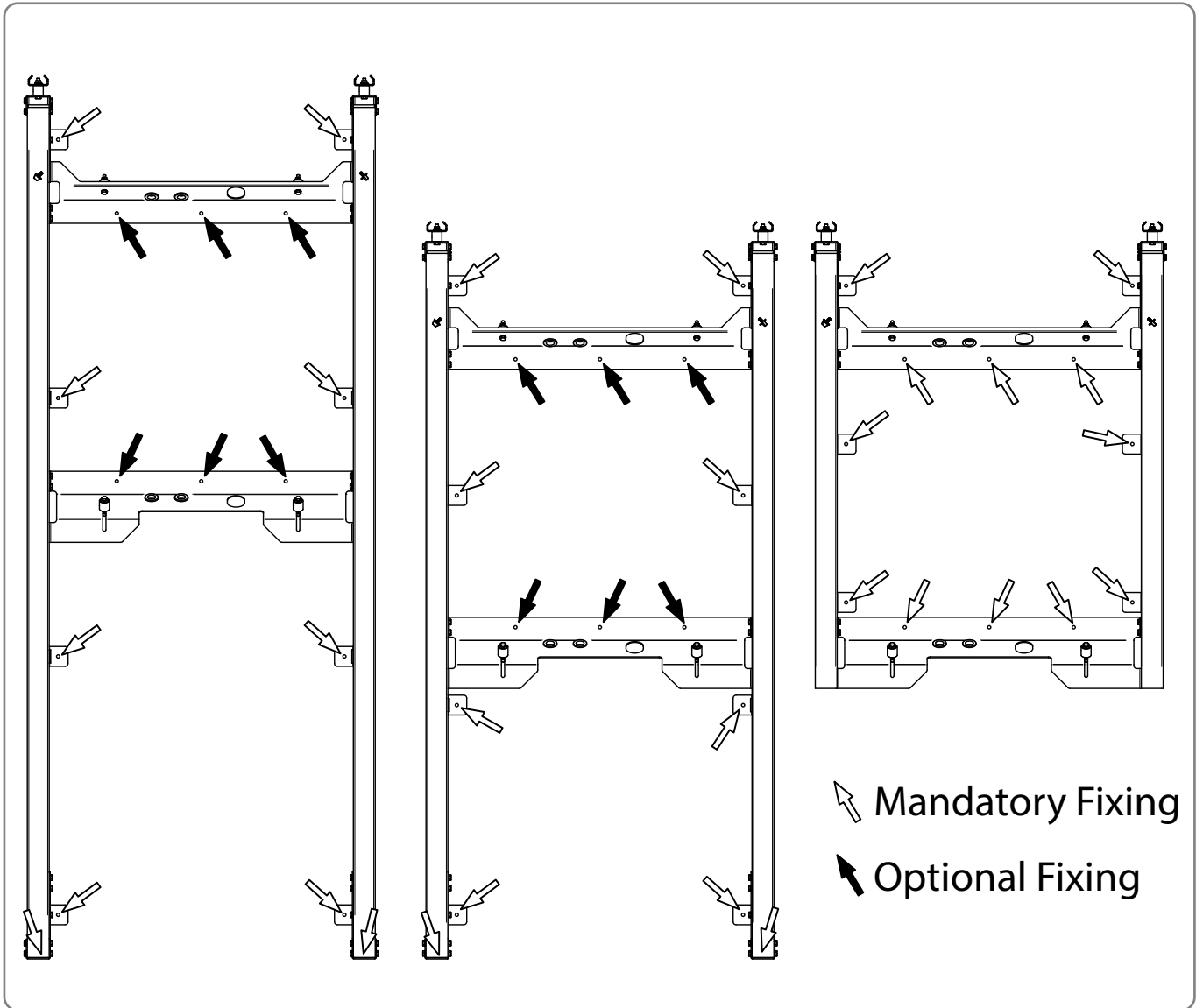
4. Fit the Grommets (FF433) to the Top & Bottom AV Mounting Brackets and the lowest pass through holes in the Wall Struts



5. Place the runners (CP1011912) on the top Support Arm's acoustic isolation mounts, Fit and tighten two Nuts (FF375) at the rear ONLY



6. Position the frame in its final position and mark the fixing points;
- TP759 Wall Mount (nine)
 - TP758 Floor Mount & TP 761 Washing Machine Mount (eleven + four for the floor).
- For all, use fixings suitable for $\varnothing 6$ holes and the substrate the frame is being fixed to.



Notes

