

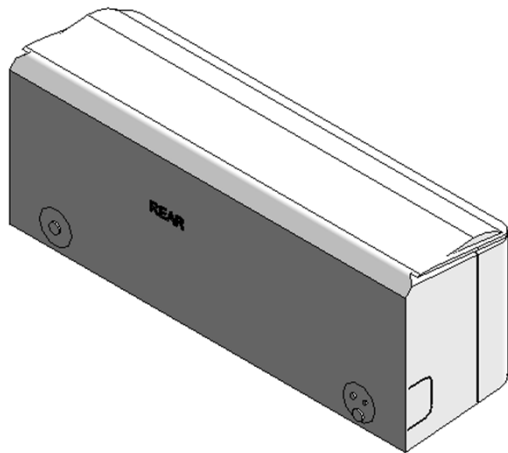
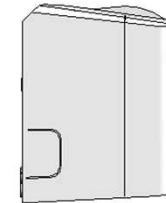
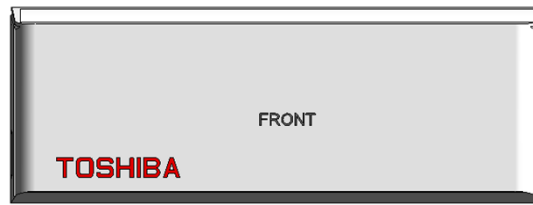
An abstract graphic on the left side of the slide, composed of numerous overlapping, semi-transparent blue rectangular and polygonal shapes. These shapes are arranged in a way that creates a sense of depth and perspective, appearing to recede towards a bright white light source at the center of the composition. The colors range from light sky blue to deep navy blue.

HCL

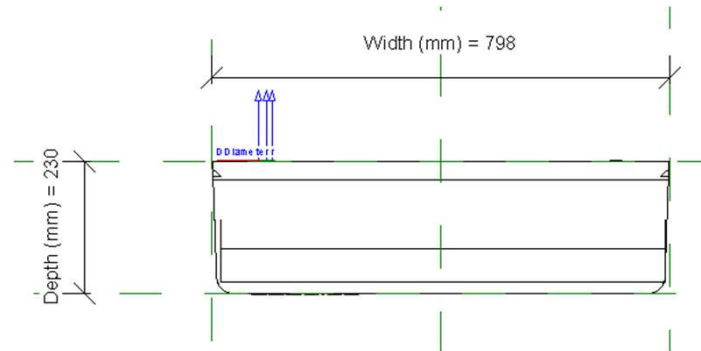
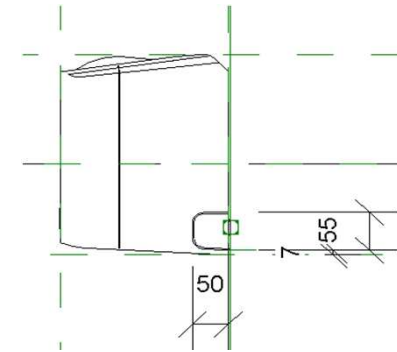
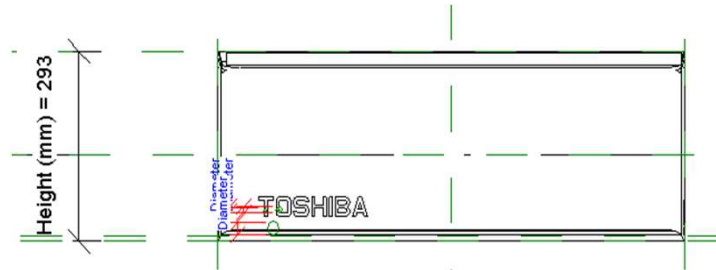
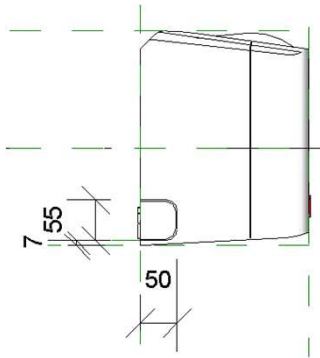
VRF_MMK1HP_3-12

22-01-2021

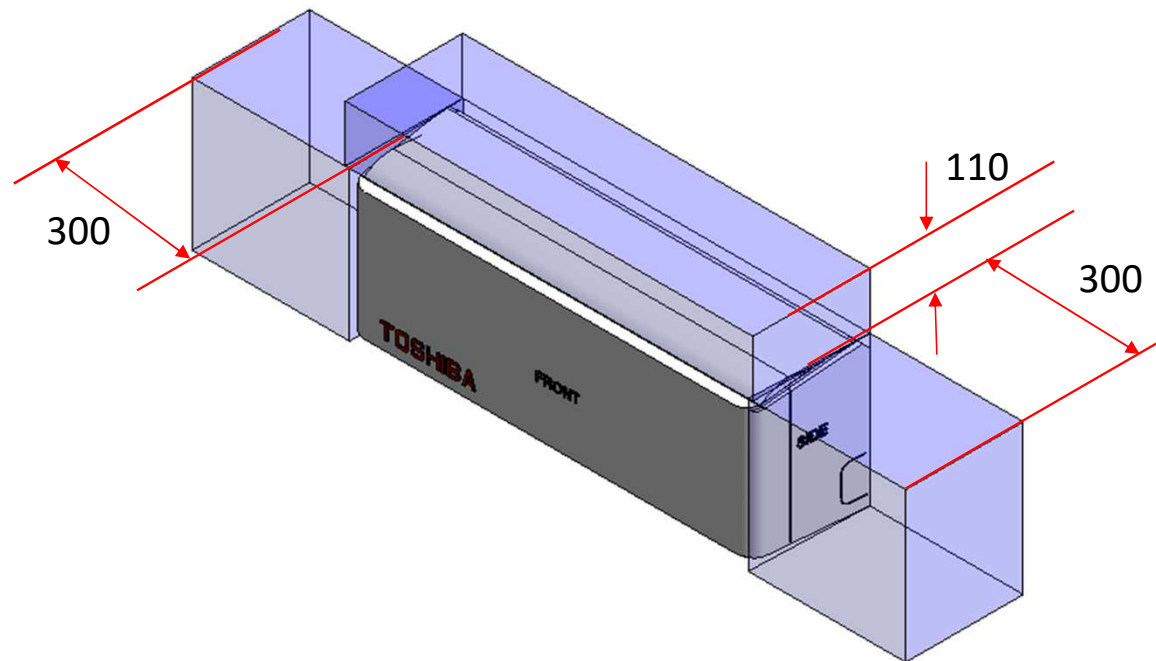
VRF_MMK1HP_3-12



VRF_MMK1HP_3-12

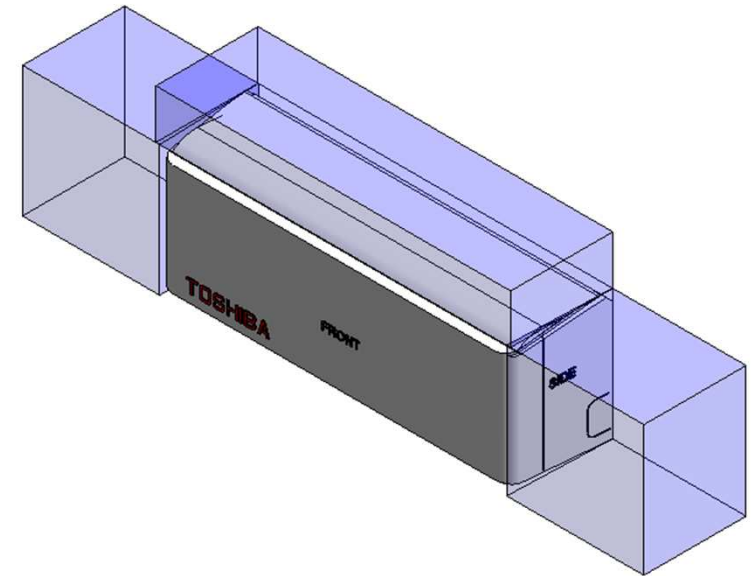


VRF_MMK1HP_3-12_Service Area



VRF_MMK1HP_3-12

Visibility	
Service Area (default)	<input checked="" type="checkbox"/>
Top Clearance (mm) (default)	110.0
Left Side Clearance (mm) (default)	300.0
Right Side Clearance (mm) (default)	300.0



Service Clearance ON

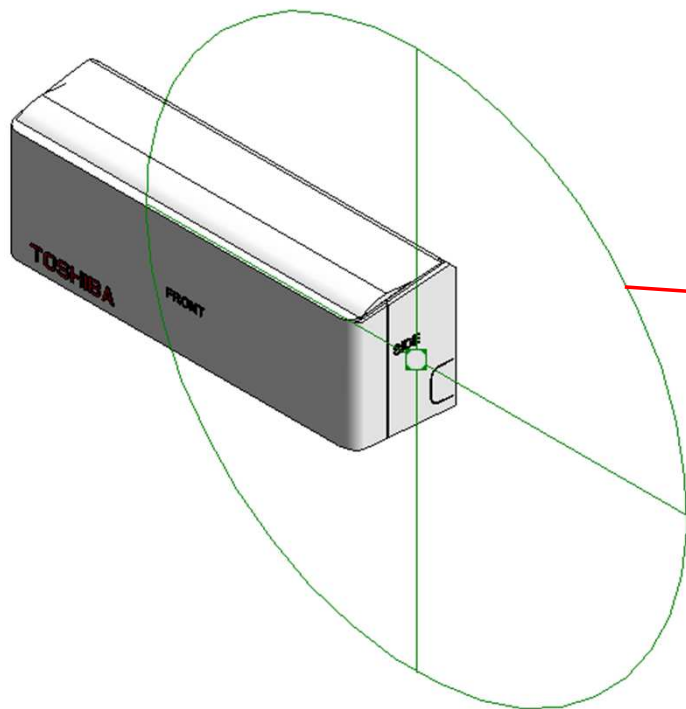
VRF_MMK1HP_3-12

Visibility	
Service Area (default)	<input type="checkbox"/>
Top Clearance (mm) (default)	110.0
Left Side Clearance (mm) (default)	300.0
Right Side Clearance (mm) (default)	300.0

Service Clearance OFF



Electrical Connector



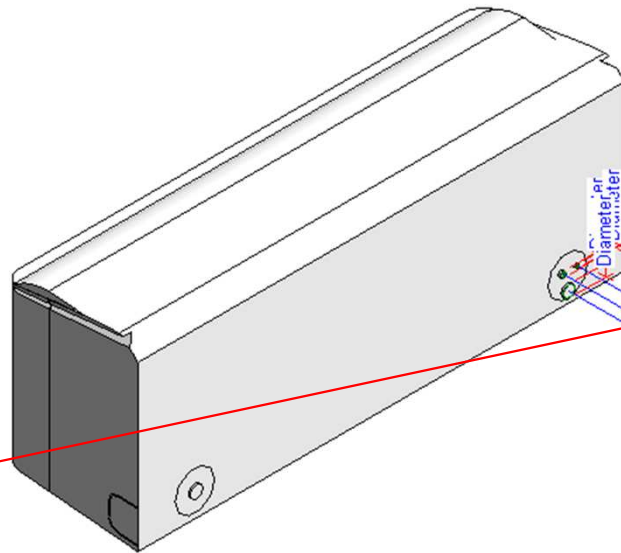
Properties

Connector Element (1) Edit Type

Electrical - Loads	
System Type	Power - Unbalanced
Number of Poles	1
Power Factor State	Lagging
Load Classification	Other
Load Sub-Classification Motor	<input type="checkbox"/>
Voltage	0.00 V
Apparent Load Phase 1	0.00 VA
Apparent Load Phase 2	0.00 VA
Apparent Load Phase 3	0.00 VA
Power Factor	1.000000
Identity Data	
Utility	<input type="checkbox"/>
Connector Description	ELECTRICAL CONNECTION PORT

Pipe Connectors

Properties	
R	
Connector Element (1)	
Dimensions	
Diameter	20.0
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	Out
Loss Method	Not Defined
Allow Slope Adjustments	<input type="checkbox"/>
System Classification	Vent
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	<input type="checkbox"/>
Connector Description	DRAIN PORT



Properties	
R	
Connector Element (1)	
Dimensions	
Diameter	6.4
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	In
Loss Method	Not Defined
Allow Slope Adjustments	<input type="checkbox"/>
System Classification	Hydronic Supply
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	<input type="checkbox"/>
Connector Description	HYDRONIC SUPPLY (LIQUID) CONNECTION PORT @ 6.4 mm

Properties	
R	
Connector Element (1)	
Dimensions	
Diameter	9.5
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	Out
Loss Method	Not Defined
Allow Slope Adjustments	<input type="checkbox"/>
System Classification	Hydronic Return
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	<input type="checkbox"/>
Connector Description	HYDRONIC RETURN (GAS) CONNECTION PORT @ 9.5 mm

MMK-UP0031HP-E

Family Types

Type name: MMK-UP0031HP-E

Search parameters

Parameter	Value	Formula
Materials and Finishes		
Red	Colour RGB-255 000 000	=
White	Colour - RGB 255 255 255	=
Electrical		
MOCP (A)	15	=
MCA (A)	0.20	=
Running current-Cooling(A)	0.15	=
Power consumption-Cooling(kW)	0.013	=
Running current-Heating	-	=
Power consumption-Heating	-	=
Frequency (Hz)	50Hz 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current(A)	0.19	=
Dimensions		
Height (mm)	293.0	=
Width (mm)	798.0	=
Depth (mm)	230.0	=
Piping diameter Gas (mm)	9.5	=
Piping diameter Liquid (mm)	6.4	=
Drain pipe	16.0	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure - Cooling (dB) High	33	=
Sound pressure - Heating (dB) Mid	29	=
Sound pressure - Heating (dB) Low	25	=
Airflow m3/h High	455	=
Airflow m3/h Mid	370	=
Airflow m3/h Low	270	=
Power Consumption (W) High	13	=
Power Consumption (W) Mid	10	=
Power Consumption (W) Low	8	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities - Cooling (kW)	0.9	=
Capacities - Heating (kW)	1.3	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMK-UP0031HP-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	<input type="checkbox"/>	=
Top Clearance (mm) (default)	110.0	=
Left Side Clearance (mm) (default)	300.0	=
Right Side Clearance (mm) (default)	300.0	=
Other		
Compressor detail (Type)	-	=
Compressor detail (Motor output kW)	-	=
Connectivity	-	=
Operating range	-	=
Refrigerant information	R410A	=
Weight (Kg)	11	=
Identity Data		
Article Description	High Wall	=
Article Type	MMK-UP0031HP-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	<input checked="" type="checkbox"/>	=
EMCS		=
ETIM Article Class		=
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.		=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCTC	= "TCTC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMK-UP0031HP-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	High Wall	=
Assembly Code		=
Cost		=
Watermarked By		=
Wholesaler		=

MMK-UP0051HP-E

Family Types

Type name: MMK-UP0051HP-E

Search parameters

Parameter	Value	Formula
Materials and Finishes		
Red	Colour RGB-255 000 000	=
White	Colour - RGB 255 255 255	=
Electrical		
MOCP (A)	15	=
MCA (A)	0.20	=
Running current-Cooling(A)	0.14	=
Power consumption-Cooling(kW)	0.013	=
Running current-Heating	-	=
Power consumption-Heating	-	=
Frequency (Hz)	50Hz 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current(A)	0.19	=
Dimensions		
Height (mm)	293.0	=
Width (mm)	798.0	=
Depth (mm)	230.0	=
Piping diameter Gas (mm)	9.5	=
Piping diameter Liquid (mm)	6.4	=
Drain pipe	16.0	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure - Cooling (dB) High	33	=
Sound pressure - Heating (dB) Mid	29	=
Sound pressure - Heating (dB) Low	25	=
Airflow m3/h High	455	=
Airflow m3/h Mid	370	=
Airflow m3/h Low	270	=
Power Consumption (W) High	13	=
Power Consumption (W) Mid	10	=
Power Consumption (W) Low	8	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities - Cooling (kW)	1.7	=
Capacities - Heating (kW)	1.9	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMK-UP0051HP-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	<input type="checkbox"/>	=
Top Clearance (mm) (default)	110.0	=
Left Side Clearance (mm) (default)	300.0	=
Right Side Clearance (mm) (default)	300.0	=
Other		
Compressor detail (Type)	-	=
Compressor detail (Motor output kW)	-	=
Connectivity	-	=
Operating range	-	=
Refrigerant information	R410A	=
Weight (Kg)	11	=
Identity Data		
Article Description	High Wall	=
Article Type	MMK-UP0051HP-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	<input checked="" type="checkbox"/>	=
EMCS		=
ETIM Article Class		=
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.		=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCTC	= "TCTC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMK-UP0051HP-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	High Wall	=
Assembly Code		=
Cost		=
Watermarked By		=
Wholesaler		=

MMK-UP0071HP-E

Family Types

Type name: MMK-UP0071HP-E

Search parameters

Parameter	Value	Formula
Materials and Finishes		
Red	Colour RGB-255 000 000	=
White	Colour - RGB 255 255 255	=
Electrical		
MOCP (A)	15	=
MCA (A)	0.21	=
Running current-Cooling(A)	0.16	=
Power consumption-Cooling(kW)	0.015	=
Running current-Heating	-	=
Power consumption-Heating	-	=
Frequency (Hz)	50Hz 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current(A)	0.2	=
Dimensions		
Height (mm)	293.0	=
Width (mm)	798.0	=
Depth (mm)	230.0	=
Piping diameter Gas (mm)	9.5	=
Piping diameter Liquid (mm)	6.4	=
Drain pipe	16.0	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure - Cooling (dB) High	35	=
Sound pressure - Heating (dB) Mid	30	=
Sound pressure - Heating (dB) Low	25	=
Airflow m3/h High	480	=
Airflow m3/h Mid	385	=
Airflow m3/h Low	270	=
Power Consumption (W) High	15	=
Power Consumption (W) Mid	10	=
Power Consumption (W) Low	8	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities - Cooling (kW)	2.2	=
Capacities - Heating (kW)	2.5	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMK-UP0071HP-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	<input type="checkbox"/>	=
Top Clearance (mm) (default)	110.0	=
Left Side Clearance (mm) (default)	300.0	=
Right Side Clearance (mm) (default)	300.0	=
Other		
Compressor detail (Type)	-	=
Compressor detail (Motor output kW)	-	=
Connectivity	-	=
Operating range	-	=
Refrigerant information	R410A	=
Weight (Kg)	11	=
Identity Data		
Article Description	High Wall	=
Article Type	MMK-UP0071HP-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	<input checked="" type="checkbox"/>	=
EMCS		=
ETIM Article Class		=
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.		=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCTC	= "TCTC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMK-UP0071HP-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	High Wall	=
Assembly Code		=
Cost		=
Watermarked By		=
Wholesaler		=

MMK-UP0091HP-E

Family Types

Type name: MMK-UP0091HP-E

Search parameters

Parameter	Value	Formula
Materials and Finishes		
Red	Colour RGB-255 000 000	=
White	Colour - RGB 255 255 255	=
Electrical		
MOCP (A)	15	=
MCA (A)	0.23	=
Running current-Cooling(A)	0.17	=
Power consumption-Cooling(kW)	0.016	=
Running current-Heating	-	=
Power consumption-Heating	-	=
Frequency (Hz)	50Hz 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current(A)	0.21	=
Dimensions		
Height (mm)	293.0	=
Width (mm)	798.0	=
Depth (mm)	230.0	=
Piping diameter Gas (mm)	9.5	=
Piping diameter Liquid (mm)	6.4	=
Drain pipe	16.0	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure - Cooling (dB) High	36	=
Sound pressure - Heating (dB) Mid	31	=
Sound pressure - Heating (dB) Low	25	=
Airflow m3/h High	510	=
Airflow m3/h Mid	395	=
Airflow m3/h Low	270	=
Power Consumption (W) High	16	=
Power Consumption (W) Mid	11	=
Power Consumption (W) Low	8	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities - Cooling (kW)	2.8	=
Capacities - Heating (kW)	3.2	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMK-UP0091HP-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	<input type="checkbox"/>	=
Top Clearance (mm) (default)	110.0	=
Left Side Clearance (mm) (default)	300.0	=
Right Side Clearance (mm) (default)	300.0	=
Other		
Compressor detail (Type)	-	=
Compressor detail (Motor output kW)	-	=
Connectivity	-	=
Operating range	-	=
Refrigerant information	R410A	=
Weight (Kg)	11	=
Identity Data		
Article Description	High Wall	=
Article Type	MMK-UP0091HP-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcitech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	<input checked="" type="checkbox"/>	=
EMCS		=
ETIM Article Class		=
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.		=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCTC	= "TCTC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMK-UP0091HP-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	High Wall	=
Assembly Code		=
Cost		=
Watermarked By		=
Wholesaler		=

MMK-UP0121HP-E

Family Types

Type name: MMK-UP0121HP-E

Search parameters

Parameter	Value	Formula
Materials and Finishes		
Red	Colour RGB-255 000 000	=
White	Colour - RGB 255 255 255	=
Electrical		
MOCP (A)	15	=
MCA (A)	0.25	=
Running current-Cooling(A)	0.18	=
Power consumption-Cooling(kW)	0.017	=
Running current-Heating	-	=
Power consumption-Heating	-	=
Frequency (Hz)	50Hz 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current(A)	0.22	=
Dimensions		
Height (mm)	293.0	=
Width (mm)	798.0	=
Depth (mm)	230.0	=
Piping diameter Gas (mm)	9.5	=
Piping diameter Liquid (mm)	6.4	=
Drain pipe	16.0	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure - Cooling (dB) High	37	=
Sound pressure - Heating (dB) Mid	32	=
Sound pressure - Heating (dB) Low	25	=
Airflow m3/h High	540	=
Airflow m3/h Mid	410	=
Airflow m3/h Low	270	=
Power Consumption (W) High	17	=
Power Consumption (W) Mid	11	=
Power Consumption (W) Low	8	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities - Cooling (kW)	3.6	=
Capacities - Heating (kW)	4	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMK-UP0121HP-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	<input type="checkbox"/>	=
Top Clearance (mm) (default)	110.0	=
Left Side Clearance (mm) (default)	300.0	=
Right Side Clearance (mm) (default)	300.0	=
Other		
Compressor detail (Type)	-	=
Compressor detail (Motor output kW)	-	=
Connectivity	-	=
Operating range	-	=
Refrigerant information	R410A	=
Weight (Kg)	11	=
Identity Data		
Article Description	High Wall	=
Article Type	MMK-UP0121HP-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcitech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	<input checked="" type="checkbox"/>	=
EMCS		=
ETIM Article Class		=
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.		=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCTC	= "TCTC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMK-UP0121HP-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	High Wall	=
Assembly Code		=
Cost		=
Watermarked By		=
Wholesaler		=



Thank You