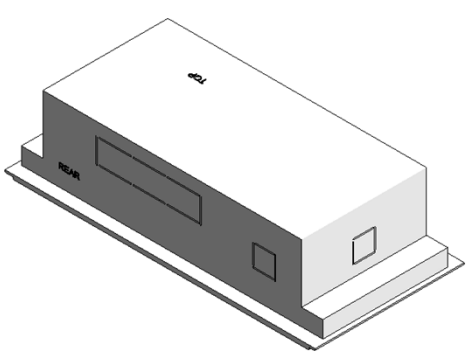
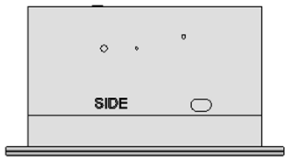
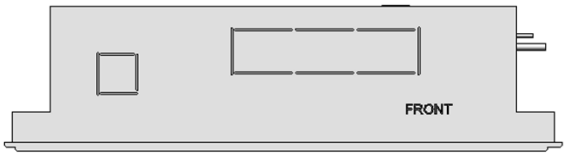
VRF_MMU1WH_18-30

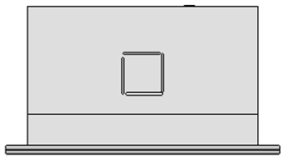
28-01-2021

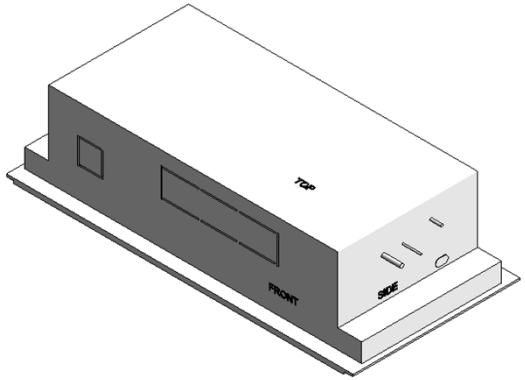
VRF_MMU1WH_18-30

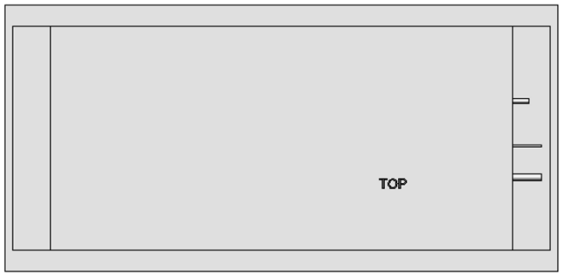




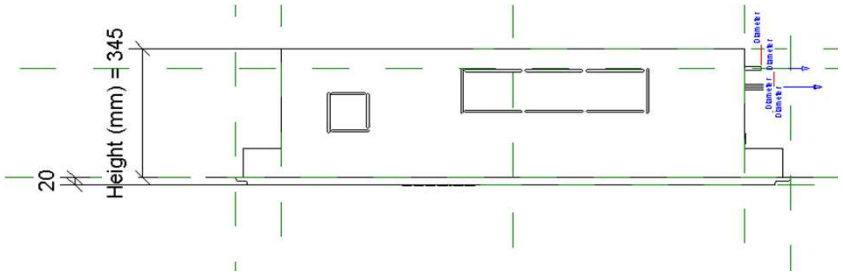


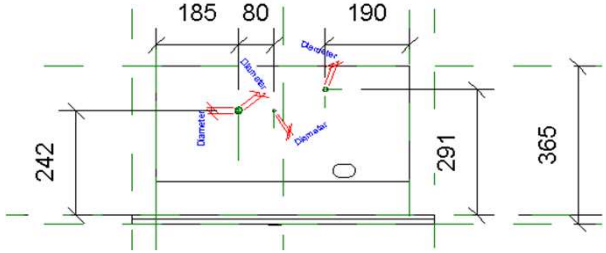


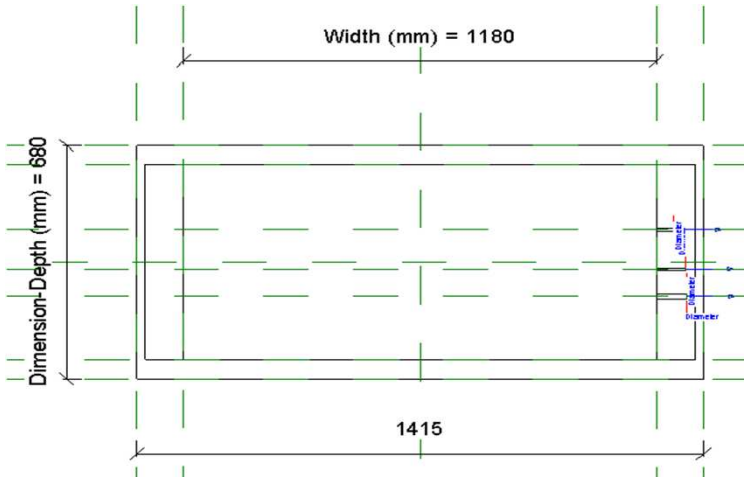




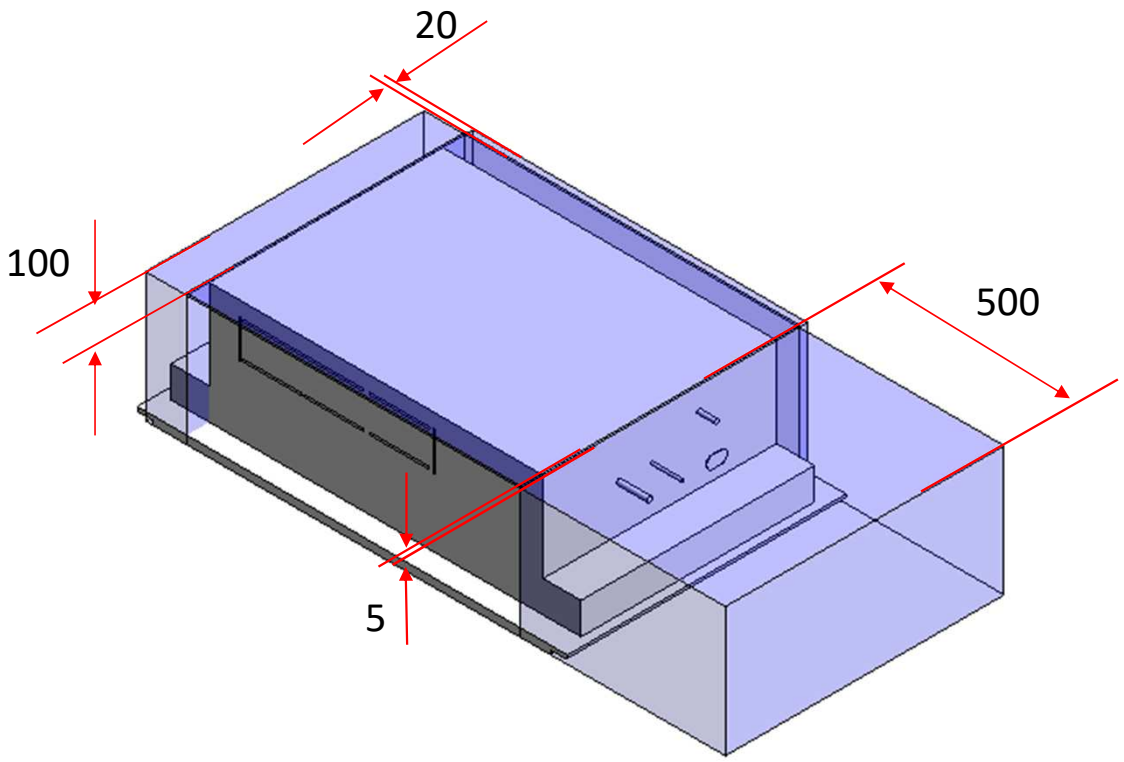
VRF_MMU1WH_18-30





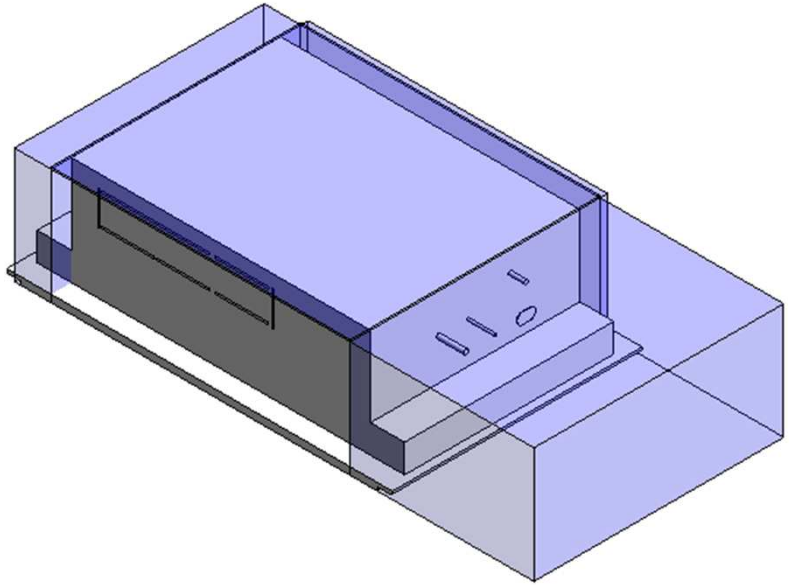


VRF_MMU1WH_18-30 _Service Area



VRF_MMU1WH_18-30

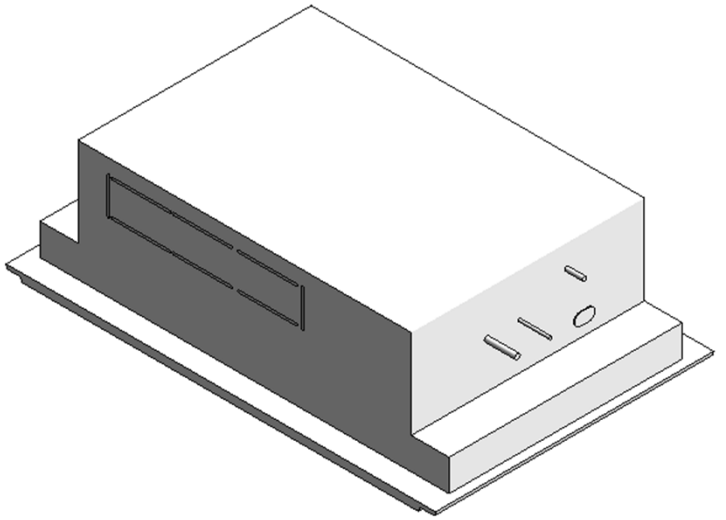
Visibility	
Service Area (default)	☑
Top Clearance (default)	5.0
Right Side Clearance (default)	500.0
Left Side Clearance (default)	100.0
Back Clearance (default)	20.0



Service Clearance ON

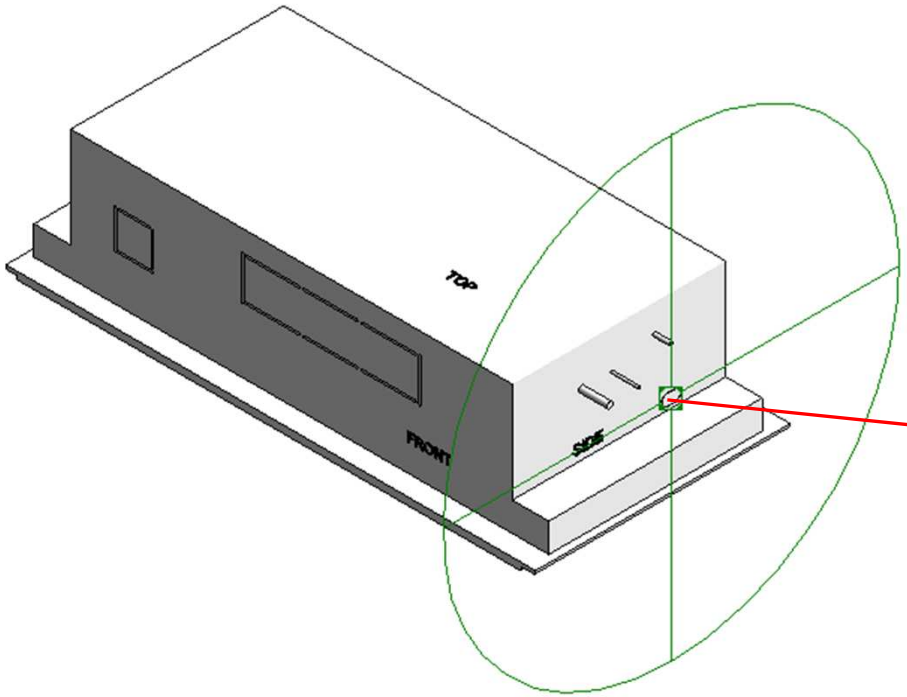
VRF_MMU1WH_18-30

Visibility	
Service Area (default)	☐
Top Clearance (default)	5.0
Right Side Clearance (default)	500.0
Left Side Clearance (default)	100.0
Back Clearance (default)	20.0



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	☐
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	☐
Connector Description	ELECTRICAL CONNECTOR

Pipe Connectors

Properties

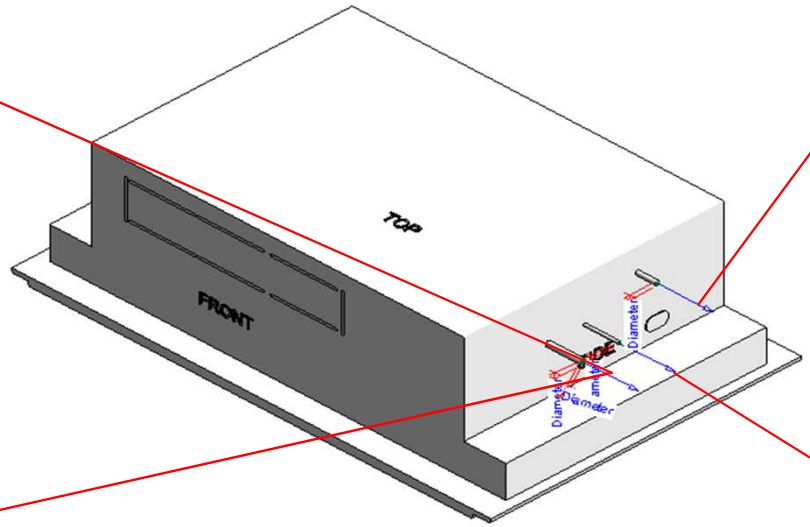
Connector Element (1)

Dimensions	
Diameter	15.9
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	Out
Loss Method	Not Defined
Allow Slope Adjustments	☐
System Classification	Hydronic Return
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	☐
Connector Description	Refrigerant Pipe connecting Port-Gas side

Properties

Connector Element (1)

Dimensions	
Diameter	12.7
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	Out
Loss Method	Not Defined
Allow Slope Adjustments	☐
System Classification	Hydronic Return
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	☐
Connector Description	Refrigerant Pipe connecting Port-Gas side



Properties

Connector Element (1)

Dimensions	
Diameter	10.0
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	Out
Loss Method	Not Defined
Allow Slope Adjustments	☐
System Classification	Vent
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	☐
Connector Description	Drain port

Properties

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	☐
System Classification	Hydronic Supply
Mechanical - Flow	
Flow	0.00 L/s
Pressure Drop	0.00 Pa
Identity Data	
Utility	☐
Connector Description	Refrigerant Pipe connecting Port-Liquid side

MMU-UP0181WH-E

Family Types

Type name: MMU-UP0181WH-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)	0.88	=
Running current-Cooling (A)	0.32	=
Power consumption-Cooling (Kw)	0.044	=
Running current-Heating	-	=
Power consumption-Heating (Kw)	-	=
Frequency (Hz)	50Hz/ 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current	0.48	=
Dimensions		
Height (mm)	345.0	=
Width (mm)	1180.0	=
Depth (mm)	570.0	=
Piping diameter Gas (mm)	12.7	=
Piping diameter Liquid (mm)	6.4	=
Drain pipe(mm)	VP25(OD:32mm)	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure dB(A)- High	35	=
Sound pressure dB(A)- Mid	33	=
Sound pressure dB(A)- Low	30	=
Airflow m3/h- High	900	=
Airflow m3/h- Mid	750	=
Airflow m3/h- Low	618	=
Power Consumption W- High	35	=
Power Consumption W- Mid	33	=
Power Consumption W- Low	30	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities KW - Cooling	5.6	=
Capacities KW - Heating	6.3	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMU-UP0181WH-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	☐	=
Top Clearance (default)	5.0	=
Right Side Clearance (default)	500.0	=
Left Side Clearance (default)	100.0	=
Back Clearance (default)	20.0	=
Other		
Refrigerant information	R410A	=
Model Name	RBC-UW803PG(W)-E	=
Dimension-Height (mm)	20.0	=
Dimension-Width (mm)	1415.0	=
Dimension-Depth (mm)	680.0	=
Weight (Kg)	26	=
Identity Data		
Article Description	Cassette 2-way	=
Article Type	MMU-UP0181WH-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	☑	=
EMCS	4	= "4"
ETIM Article Class	EC001213	= "EC001213"
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.	MMU-UP0181WH-E	=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCC	= "TCC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMU-UP0181WH-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	Cassette 2-way	=
Assembly Code		=
Cost		=
Watermarked By		=

MMU-UP0241WH-E

Family Types

Type name: MMU-UP0241WH-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)	1.01	=
Running current-Cooling (A)	0.39	=
Power consumption-Cooling (Kw)	0.054	=
Running current-Heating	-	=
Power consumption-Heating (Kw)	-	=
Frequency (Hz)	50Hz/ 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current	0.59	=
Dimensions		
Height (mm)	345.0	=
Width (mm)	1180.0	=
Depth (mm)	570.0	=
Piping diameter Gas (mm)	15.9	=
Piping diameter Liquid (mm)	9.5	=
Drain pipe(mm)	VP25(OD:32mm)	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure dB(A)- High	38	=
Sound pressure dB(A)- Mid	35	=
Sound pressure dB(A)- Low	33	=
Airflow m3/h- High	1050	=
Airflow m3/h- Mid	840	=
Airflow m3/h- Low	738	=
Power Consumption W- High	54	=
Power Consumption W- Mid	48	=
Power Consumption W- Low	45	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities KW - Cooling	7.1	=
Capacities KW - Heating	8	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMU-UP0241WH-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	☑	=
Top Clearance (default)	5.0	=
Right Side Clearance (default)	500.0	=
Left Side Clearance (default)	100.0	=
Back Clearance (default)	20.0	=
Other		
Refrigerant information	R410A	=
Model Name	RBC-UW803PG(W)-E	=
Dimension-Height (mm)	20.0	=
Dimension-Width (mm)	1415.0	=
Dimension-Depth (mm)	680.0	=
Weight (Kg)	26	=
Identity Data		
Article Description	Cassette 2-way	=
Article Type	MMU-UP0241WH-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	☑	=
EMCS	4	= "4"
ETIM Article Class	EC001213	= "EC001213"
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.	MMU-UP0241WH-E	=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCC	= "TCC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMU-UP0241WH-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	Cassette 2-way	=
Assembly Code		=
Cost		=
Watermarked By		=

e) 2 Engineering experiences

HCL

MMU-UP0271WH-E

Family Types

Type name: MMU-UP0271WH-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)	1.01	=
Running current-Cooling (A)	0.39	=
Power consumption-Cooling (Kw)	0.054	=
Running current-Heating	-	=
Power consumption-Heating (Kw)	-	=
Frequency (Hz)	50Hz/ 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current	0.59	=
Dimensions		
Height (mm)	345.0	=
Width (mm)	1180.0	=
Depth (mm)	570.0	=
Piping diameter Gas (mm)	15.9	=
Piping diameter Liquid (mm)	9.5	=
Drain pipe(mm)	VP25(OD:32mm)	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure dB(A)- High	38	=
Sound pressure dB(A)- Mid	35	=
Sound pressure dB(A)- Low	33	=
Airflow m3/h- High	1050	=
Airflow m3/h- Mid	840	=
Airflow m3/h- Low	738	=
Power Consumption W- High	54	=
Power Consumption W- Mid	48	=
Power Consumption W- Low	45	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities KW - Cooling	8	=
Capacities KW - Heating	9	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMU-UP0271WH-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	☑	=
Top Clearance (default)	5.0	=
Right Side Clearance (default)	500.0	=
Left Side Clearance (default)	100.0	=
Back Clearance (default)	20.0	=
Other		
Refrigerant information	R410A	=
Model Name	RBC-UW803PG(W)-E	=
Dimension-Height (mm)	20.0	=
Dimension-Width (mm)	1415.0	=
Dimension-Depth (mm)	680.0	=
Weight (Kg)	26	=
Identity Data		
Article Description	Cassette 2-way	=
Article Type	MMU-UP0271WH-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	☑	=
EMCS	4	= "4"
ETIM Article Class	EC001213	= "EC001213"
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.	MMU-UP0271WH-E	=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCC	= "TCC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMU-UP0271WH-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	Cassette 2-way	=
Assembly Code		=
Cost		=
Watermarked By		=

MMU-UP0301WH-E

Family Types

Type name: MMU-UP0301WH-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)	1.01	=
Running current-Cooling (A)	0.46	=
Power consumption-Cooling (Kw)	0.064	=
Running current-Heating	-	=
Power consumption-Heating (Kw)	-	=
Frequency (Hz)	50Hz/ 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current	0.69	=
Dimensions		
Height (mm)	345.0	=
Width (mm)	1180.0	=
Depth (mm)	570.0	=
Piping diameter Gas (mm)	15.9	=
Piping diameter Liquid (mm)	9.5	=
Drain pipe(mm)	VP25(OD:32mm)	=
Duct diameters(mm)	-	=
Mechanical - Flow		
Static pressure	-	=
Sound pressure dB(A)- High	40	=
Sound pressure dB(A)- Mid	37	=
Sound pressure dB(A)- Low	34	=
Airflow m3/h- High	1260	=
Airflow m3/h- Mid	900	=
Airflow m3/h- Low	780	=
Power Consumption W- High	64	=
Power Consumption W- Mid	57	=
Power Consumption W- Low	52	=
Mechanical - Loads		
Seasonal and Rated Efficiency	-	=
Part Load	-	=
Capacities KW - Cooling	9	=
Capacities KW - Heating	10	=
Energy Analysis		
Energy class	-	=
Capacity	-	=
Rated efficiency	-	=

Family Types

Type name: MMU-UP0301WH-E

Search parameters

Parameter	Value	Formula
Visibility		
Service Area (default)	☐	=
Top Clearance (default)	5.0	=
Right Side Clearance (default)	500.0	=
Left Side Clearance (default)	100.0	=
Back Clearance (default)	20.0	=
Other		
Refrigerant information	R410A	=
Model Name	RBC-UW803PG(W)-E	=
Dimension-Height (mm)	20.0	=
Dimension-Width (mm)	1415.0	=
Dimension-Depth (mm)	680.0	=
Weight (Kg)	26	=
Identity Data		
Article Description	Cassette 2-way	=
Article Type	MMU-UP0301WH-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
Custom	☑	=
EMCS	4	= "4"
ETIM Article Class	EC001213	= "EC001213"
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer Art. No.	MMU-UP0301WH-E	=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCC	= "TCC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMU-UP0301WH-E	=
Manufacturer	Toshiba	= "Toshiba"
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	Cassette 2-way	=
Assembly Code		=
Cost		=
Watermarked By		=



Thank You