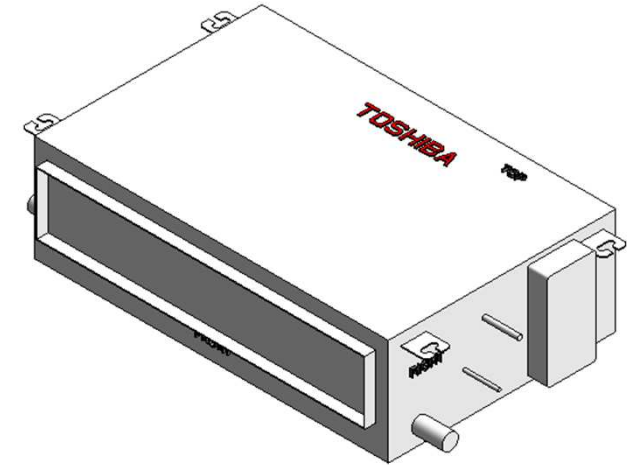
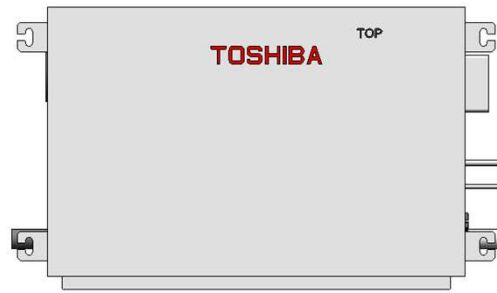
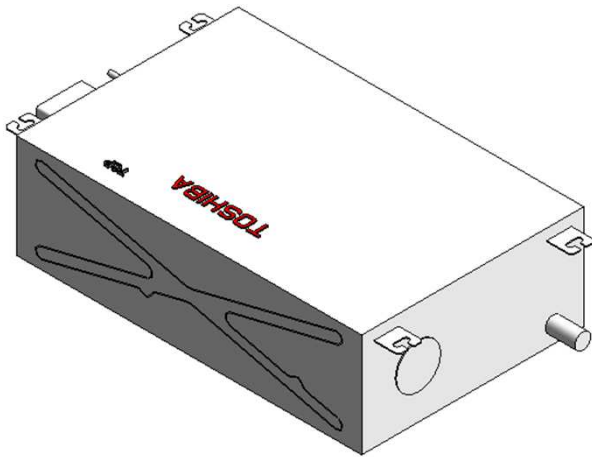
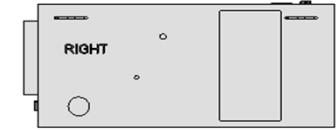
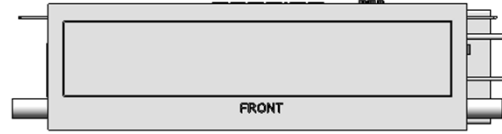
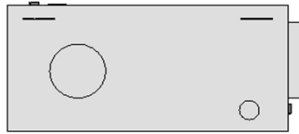


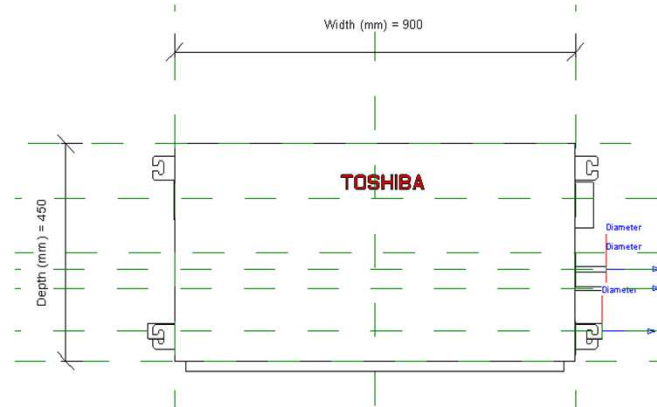
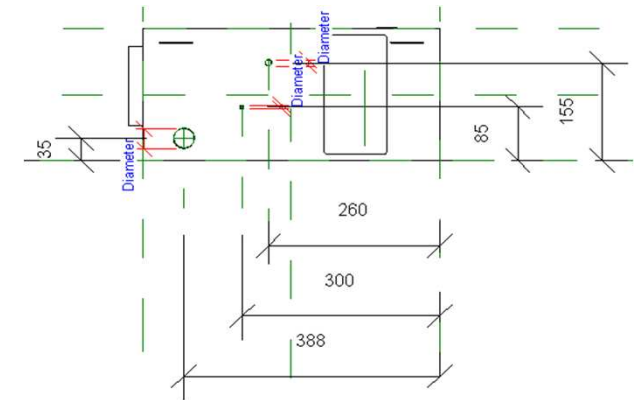
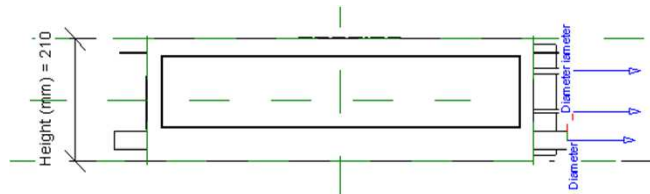
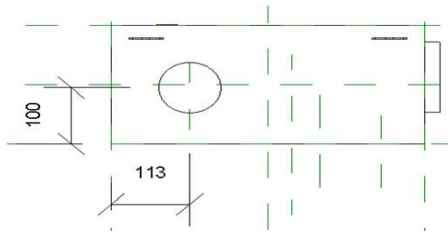
# VRF\_MMD1SPHY\_15-18

18-01-2021

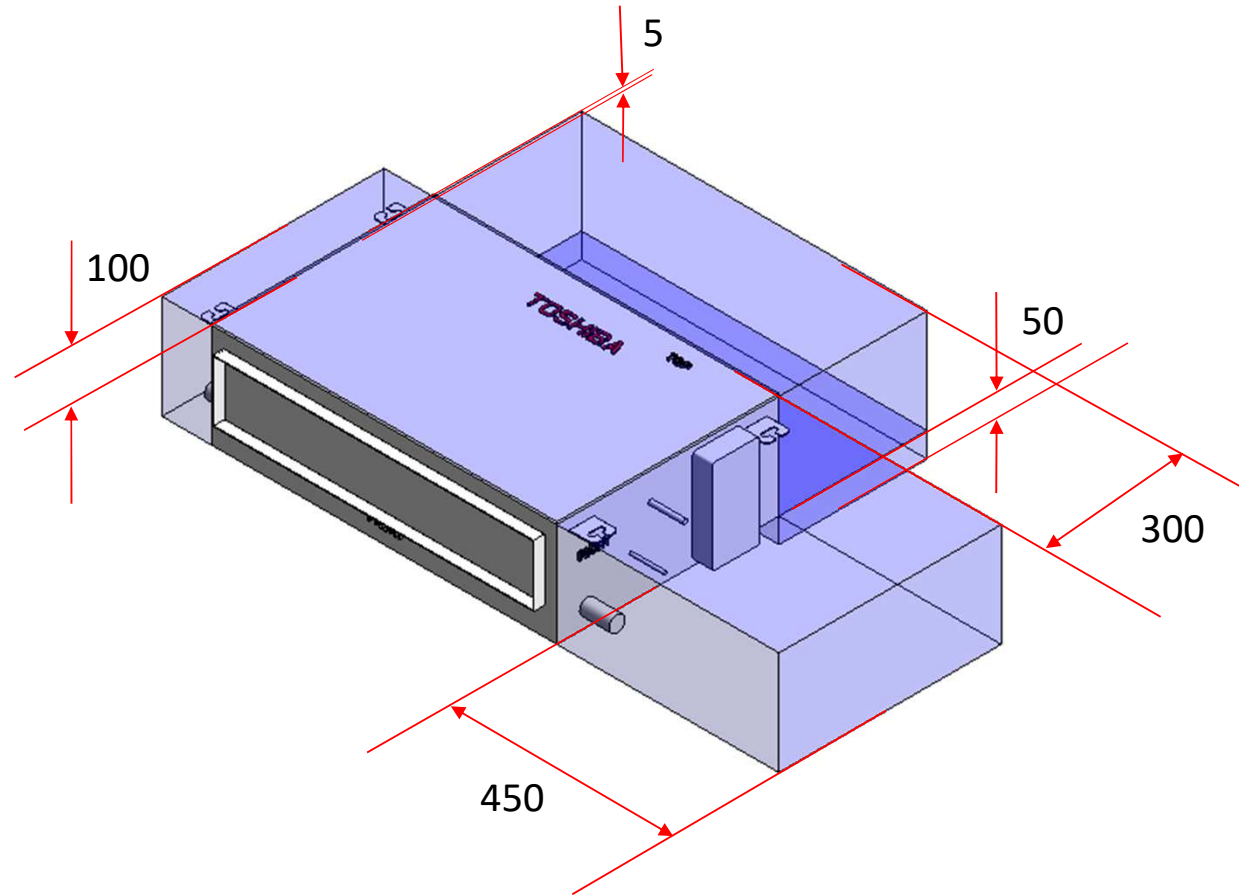
# VRF\_MMD1SPHY\_15-18



# VRF\_MMD1SPHY\_15-18

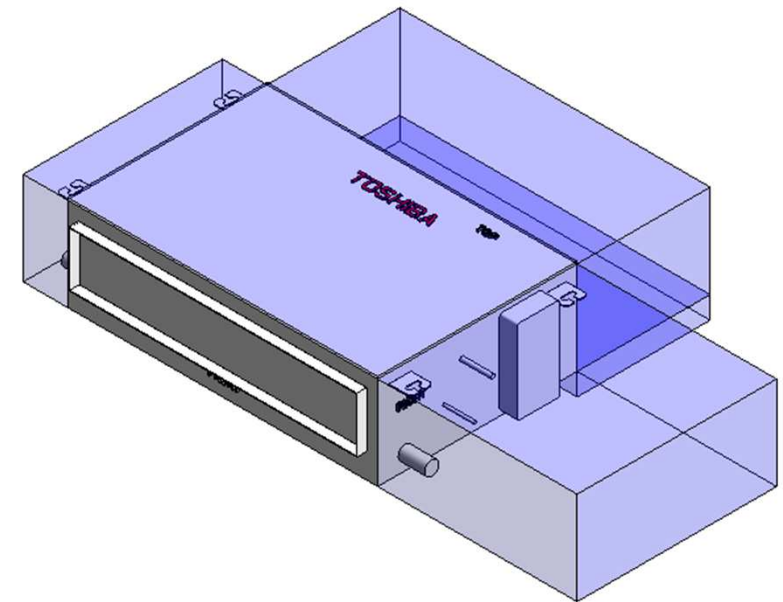


# VRF\_MMD1SPHY\_15-18\_Service Area



# VRF\_MMD1SPHY\_15-18

Visibility	
Service Area (default)	<input type="checkbox"/>
Top Clearance (mm) (default)	5.0
Right Side Clearance (mm) (default)	450.0
Left Side Clearance (mm) (default)	100.0
Rear side (Under air intake) (default)	50.0
Back Clearance (mm) (default)	300.0

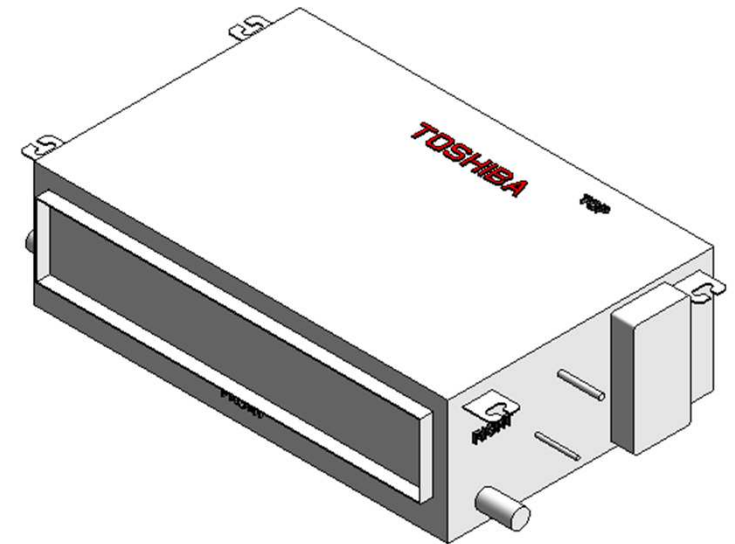


Service Clearance ON

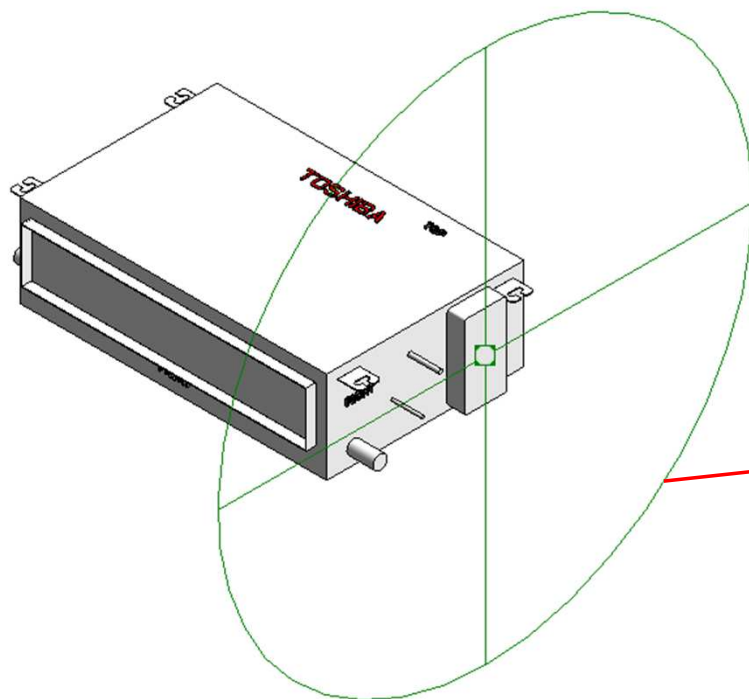
# VRF\_MMD1SPHY\_15-18

Visibility	
Service Area (default)	<input type="checkbox"/>
Top Clearance (mm) (default)	5.0
Right Side Clearance (mm) (default)	450.0
Left Side Clearance (mm) (default)	100.0
Rear side (Under air intake) (default)	50.0
Back Clearance (mm) (default)	300.0

Service Clearance OFF



# Electrical Connector



Properties

R

Connector Element (1) Edit Type

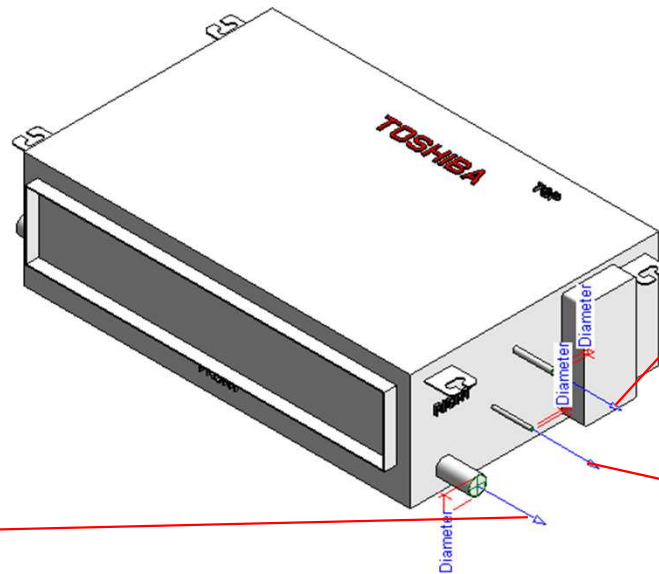
Electrical - Loads

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 CONNECTOR

# Pipe Connectors



Properties	
<b>R</b>	
Connector Element (1)	
Dimensions	
Diameter	32.0
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 32mm

Properties	
<b>R</b>	
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	<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) PORT @ 12.7 mm

Properties	
<b>R</b>	
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) PORT @ 6.4 mm



# MMD-UP0151SPHY-E

## Family Types

Type name: MMD-UP0151SPHY-E

Search parameters

Parameter	Value	Formula
<b>Materials and Finishes</b>		
Red	Colour RGB-255 000 000	*
White	Colour RGB-255 255 255	*
<b>Electrical</b>		
MOCP (A)	15	*
MCA (A)	0.55	*
Running current-Cooling (A)	0.47/ 0.49	*
Power consumption-Cooling (Kw)	0.035	*
Running current-Heating (A)	0.47/ 0.49	*
Power consumption-Heating (Kw)	0.035	*
Frequency (Hz)	50Hz 220-240V	*
Voltage (V)	60Hz 208-230V	*
Starting current (A)	0.82/ 0.86	*
<b>Dimensions</b>		
Height (mm)	210.0	*
Width (mm)	900.0	*
Depth (mm)	450.0	*
Piping diameter (mm)-Gas	12.7	*
Piping diameter (mm)-Liquid	6.4	*
Drain Pipe Diameter (mm)	32.0	*
Drain pipe	VP25(OD32mm)	*
Duct diameter (mm)	-	*
<b>Mechanical - Flow</b>		
Static pressure (Pa)	10-20-30-40-50	*
Factory default	10	*
Sound pressure dB(A) - High	34	*
Sound pressure dB(A) -Mid	32	*
Sound pressure dB(A) -Low	28	*
Airflow (m3/h)- High	690	*
Airflow (m3/h)-Mid	640	*
Airflow (m3/h)-Low	550	*
Power Consumption W-High	-	*
Power Consumption W-Mid	-	*
Power Consumption W-Low	-	*
<b>Mechanical - Loads</b>		
Seasonal & Rated efficiency	-	*
Part load	-	*
Capacities kW-Cooling	4.5	*
Capacities kW-Heating	5	*
<b>Energy Analysis</b>		
Energy Class	-	*
Capacity	-	*
Rated efficiency	-	*

## Family Types

Type name: MMD-UP0151SPHY-E

Search parameters

Parameter	Value	Formula
<b>Visibility</b>		
Service Area (default)	<input type="checkbox"/>	*
Top Clearance (mm) (default)	5.0	*
Right Side Clearance (mm) (default)	450.0	*
Left Side Clearance (mm) (default)	100.0	*
Rear side (Under air intake) (default)	50.0	*
Rear side (Back air intake) Clearance (mm) (default)	300.0	*
<b>Other</b>		
Sold separately parts	-	*
Refrigerant Information	R410A	*
Weight (Kg)	19	*
<b>Identity Data</b>		
Article Description	Ducted slim	*
Article Type	MMD-UP0151SPHY-E	*
Base Family Version		*
CB-NL Class		*
Content Supplier URL	www.hcltech.com	*
Copyright	©Toshiba / HCL	*"©Toshiba / HCL"
EMCS	4	*"4"
ETIM Article Class	EC001213	*"EC001213"
Family Version		*
GLN		*
GTIN		*
Internal Art. No.		*
MEPcontent Class	HEATPUMP	*"HEATPUMP"
Manufacturer	Toshiba	*"Toshiba"
Manufacturer Art. No.	MMD-UP0151SPHY-E	*
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	*
Product Line	TCAC	*"TCAC"
Revit Version	2017	*"2017"
Stabu Code		*
Type Image		*
Keynote		*
Model	MMD-UP0151SPHY-E	*
Type Comments		*
URL	https://www.toshiba-carrier.co.jp/global/	*
Description	Ducted slim	*
Assembly Code		*
Cost		*
Watermarked By		*
Wholesaler		*
Wholesaler Art. No		*

# MMD-UP0181SPHY-E

## Family Types

Type name: MMD-UP0181SPHY-E

Search parameters

Parameter	Value	Formula
<b>Materials and Finishes</b>		
Red	Colour RGB-255 000 000	=
White	Colour RGB-255 255 255	=
<b>Electrical</b>		
MOCP (A)	15	=
MCA (A)	0.55	=
Running current-Cooling (A)	0.53/ 0.56	=
Power consumption-Cooling (Kw)	0.044	=
Running current-Heating (A)	0.53/ 0.56	=
Power consumption-Heating (Kw)	0.044	=
Frequency (Hz)	50Hz 220-240V	=
Voltage (V)	60Hz 208-230V	=
Starting current (A)	0.92/ 0.97	=
<b>Dimensions</b>		
Height (mm)	210.0	=
Width (mm)	900.0	=
Depth (mm)	450.0	=
Piping diameter (mm)-Gas	12.7	=
Piping diameter (mm)-Liquid	6.4	=
Drain Pipe Diameter (mm)	32.0	=
Drain pipe	VP25(OD32mm)	=
Duct diameter (mm)	-	=
<b>Mechanical - Flow</b>		
Static pressure (Pa)	10-20-30-40-50	=
Factory default	10	=
Sound pressure dB(A) - High	35	=
Sound pressure dB(A) -Mid	33	=
Sound pressure dB(A) -Low	29	=
Airflow (m3/h) - High	780	=
Airflow (m3/h)-Mid	750	=
Airflow (m3/h)-Low	660	=
Power Consumption W-High	-	=
Power Consumption W-Mid	-	=
Power Consumption W-Low	-	=
<b>Mechanical - Loads</b>		
Seasonal & Rated efficiency	-	=
Part load	-	=
Capacities kW-Cooling	5.6	=
Capacities kW-Heating	6.3	=
<b>Energy Analysis</b>		
Energy Class	-	=
Capacity	-	=
Rated efficiency	-	=

## Family Types

Type name: MMD-UP0181SPHY-E

Search parameters

Parameter	Value	Formula
<b>Visibility</b>		
Service Area (default)	<input type="checkbox"/>	=
Top Clearance (mm) (default)	5.0	=
Right Side Clearance (mm) (default)	450.0	=
Left Side Clearance (mm) (default)	100.0	=
Rear side (Under air intake) (default)	50.0	=
Rear side (Back air intake) Clearance (mm) (default)	300.0	=
<b>Other</b>		
Sold separately parts	-	=
Refrigerant Information	R410A	=
Weight (Kg)	19	=
<b>Identity Data</b>		
Article Description	Ducted slim	=
Article Type	MMD-UP0181SPHY-E	=
Base Family Version		=
CB-NL Class		=
Content Supplier URL	www.hcltech.com	=
Copyright	©Toshiba / HCL	= "©Toshiba / HCL"
EMCS	4	= "4"
ETIM Article Class	EC001213	= "EC001213"
Family Version		=
GLN		=
GTIN		=
Internal Art. No.		=
MEPcontent Class	HEATPUMP	= "HEATPUMP"
Manufacturer	Toshiba	= "Toshiba"
Manufacturer Art. No.	MMD-UP0181SPHY-E	=
Manufacturer URL	https://www.toshiba-carrier.co.jp/global/	=
Product Line	TCAC	= "TCAC"
Revit Version	2017	= "2017"
Stabu Code		=
Type Image		=
Keynote		=
Model	MMD-UP0181SPHY-E	=
Type Comments		=
URL	https://www.toshiba-carrier.co.jp/global/	=
Description	Ducted slim	=
Assembly Code		=
Cost		=
Watermarked By		=
Wholesaler		=
Wholesaler Art. No		=



**Thank You**