

# Packaged Air Handling Unit

## *LSFP Series*

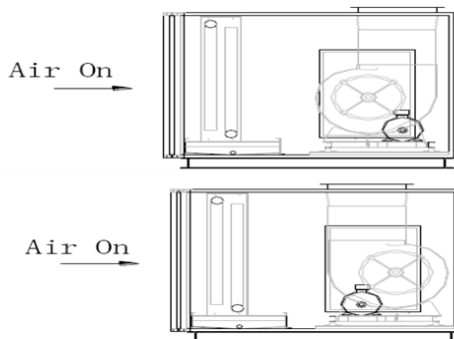
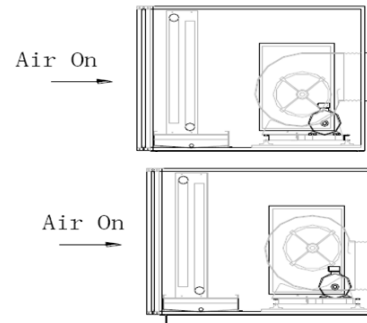
### **LSFP30**

#### Model Number Configuration

LSFP30-WI-4+1 :	4 + 1 Row: Horizontal Model: Horizontal air discharge
LSFP30-WII-4+1 :	4 + 1 Row: Horizontal Model: Vertical air discharge
LSFP30-AWI-4+1 :	4 + 1 Row: Horizontal Model: Horizontal air discharge with fan turn 180°
LSFP30-AWII-4+1:	4 + 1 Row: Horizontal Model: Vertical air discharge with fan turn 180°
LSFP30-WI-6+1 :	6 + 1 Row: Horizontal Model: Horizontal air discharge
LSFP30-WII-6+1 :	6 + 1 Row: Horizontal Model: Vertical air discharge
LSFP30-AWI-6+1 :	6 + 1 Row: Horizontal Model: Horizontal air discharge with fan turn 180°
LSFP30-AWII-6+1:	6 + 1 Row: Horizontal Model: Vertical air discharge with fan turn 180°

**WI**  
*Horizontal Model with  
Horizontal air discharge*

**AWI**  
*Horizontal Model with  
fan turn 180° and  
Horizontal air discharge*



**WII**  
*Horizontal Model with  
Vertical air discharge*

**AWII**  
*Horizontal Model with  
fan turn 180° and  
Vertical air discharge*

# Packaged Air Handling Unit *Horizontal Model* LSFP30

## PERFORMANCE DATA

### RETURN AIR

Model	Row	Air Flow	4 Rows Cooling				1 Row Heating			External Excess Pressure			Motor Power			Unit Weight	
			Total	Sensible	Water Flow	Water Resistance	Rated Heating	Water Flow	Water Resistance	I	II	III	I	II	III	Horizontal	Vertical
			l/s	kW	kW	l/s	kPa	kW	l/s	kPa	Pa	Pa	Pa	kW	kW	kW	kg
LSFP30-4+1	4+1	833	19.0	13.3	0.9	25.8	10.5	0.3	3.5	190	250	270	0.55	0.55	0.55	133	148
LSFP30-6+1	6+1	833	23.1	15.5	1.1	17.8	10.5	0.3	3.5	140	200	220	0.55	0.55	0.55	164	171

#### Notes for Return Air:

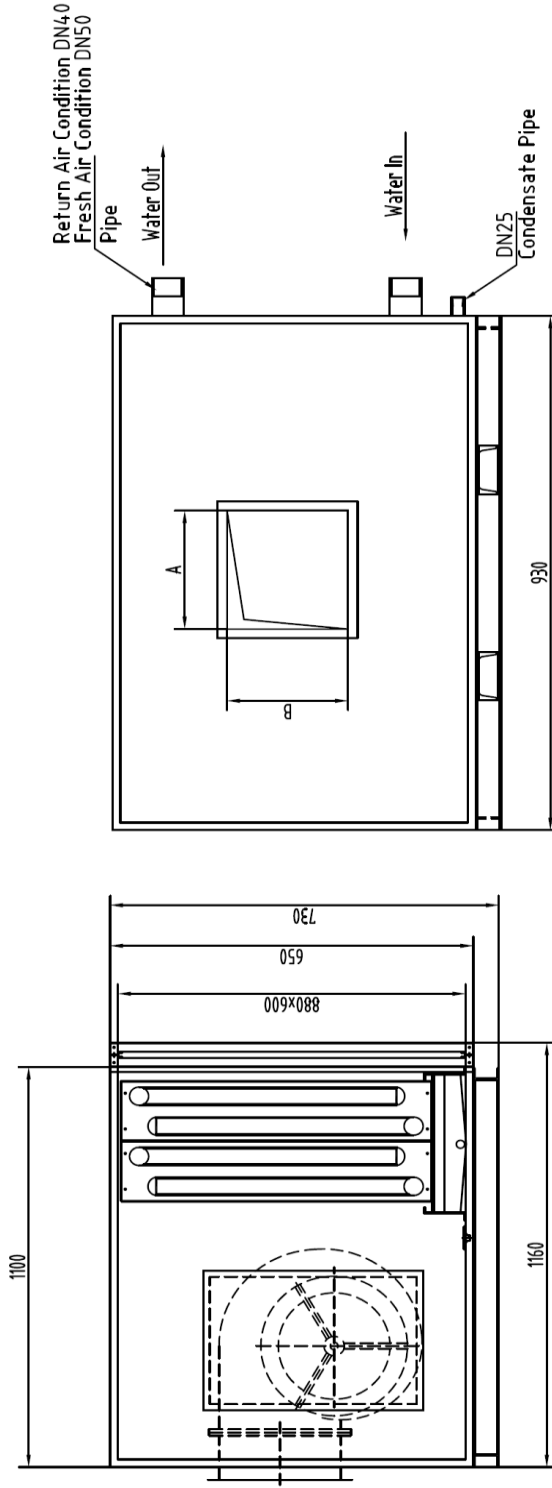
1. Cooling: The water in/out temp. is 7°C/12°C; the air in temp. is 27°C DB / 19.5°C WB
2. Heating: The water in/out temp. is 60°C/50°C; the air in temp. is 21°C DB.
3. The motor power offered is the motor output power.
4. The above performance is for reference only. Different air and water conditions would lead to different cooling capacity.

#### SPECIFICATION

- **Coil:**  
LSFP010W-LSFP 120W :  $\phi$  9.52mm, copper tube, aluminium fins  
LSFP135W-LSFP 300W:  $\phi$  12.7mm, copper tube, aluminium fins
- **Fan and motor:**  
LSFP 010W-LSFP 025W: direct driven, forward curved centrifugal fan  
LSFP 030W-LSFP 300W: belt driven, forward curved centrifugal fan
- **Filter:** 15mm panel filter
- **Cabinet:** 25mm thick double skinned panel
- **Drip-tray:** powder painting steel sheet

# Packaged Air Handling Unit -Horizontal Model LSPFP30

Diagrams of: LSPFP 030WI



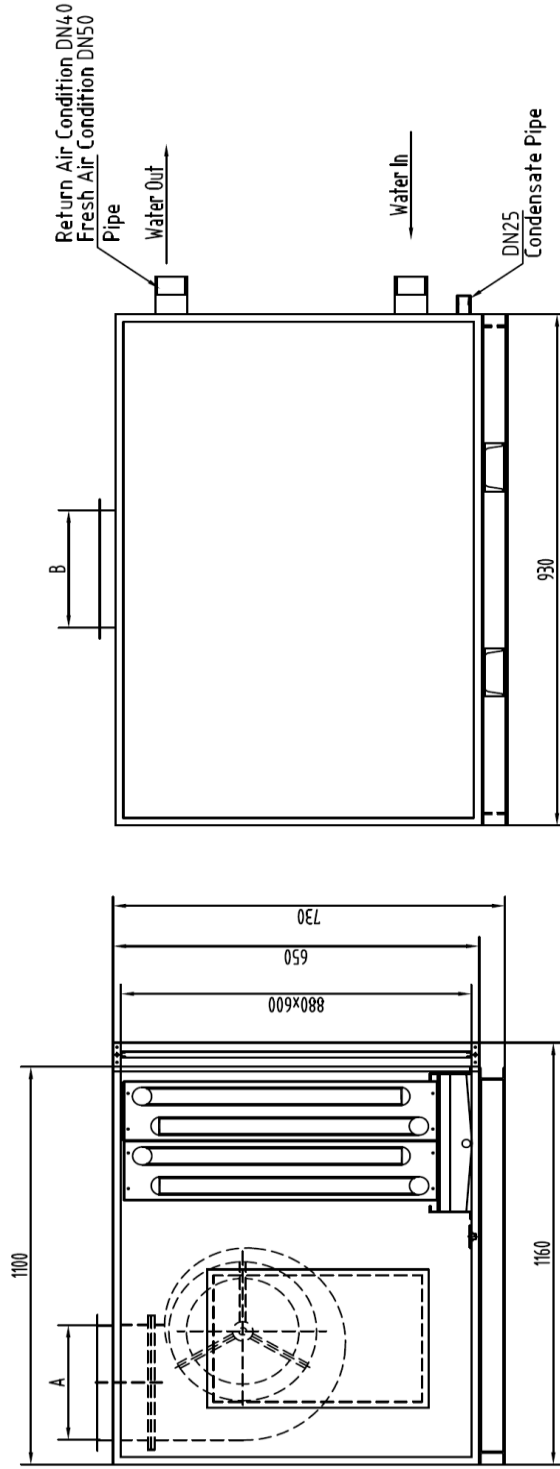
Note: The unit shown is of left hand type.

Air Flow l/s.	833			
External Overbottom Pressure Pa	190	140	200	270
Coil Rows: Cooling+Heating	4+1	6+1	6+1	4+1
Fan Model (Drive Type)	KDF2.25WS (Direct drive)	KDF2.51WS (Direct drive)	KDF2.51WS (Direct drive)	KDF2.51WS (Direct drive)
Air Spigot Size: AxB mm	300x221	282x262	340x262	340x262
Motor Power-Pole	0.55KW-4	0.55KW-4	0.55KW-4	0.55KW-4
A FLA	1.5A	1.5A	1.5A	1.5A
Voltage	415V/3Ph/50HZ			
Coil Diameter mm/ Fins: Lengthxwidth mm	ø9.52/1670x508			
Filter: LengthxwidthxThickness mm/quantity	440x694x15/2			

DRAWN BY: GUO JINGFENG	DATE: 22/04/2010	
APPROVED O.A.S: WU MEIJUN	APPROVED ENG: ZHANG JINGFEI	TITLE: Water Cooled Fan Coil Unit LSPFP TYPE
MODEL: LSPFP 030WI	DRAWING NO.: 01	ISSUE: 01
		SHEET: SIZE: A4

# Packaged Air Handling Unit -Horizontal Model LSPFP30

Diagrams of: LSPFP030WII



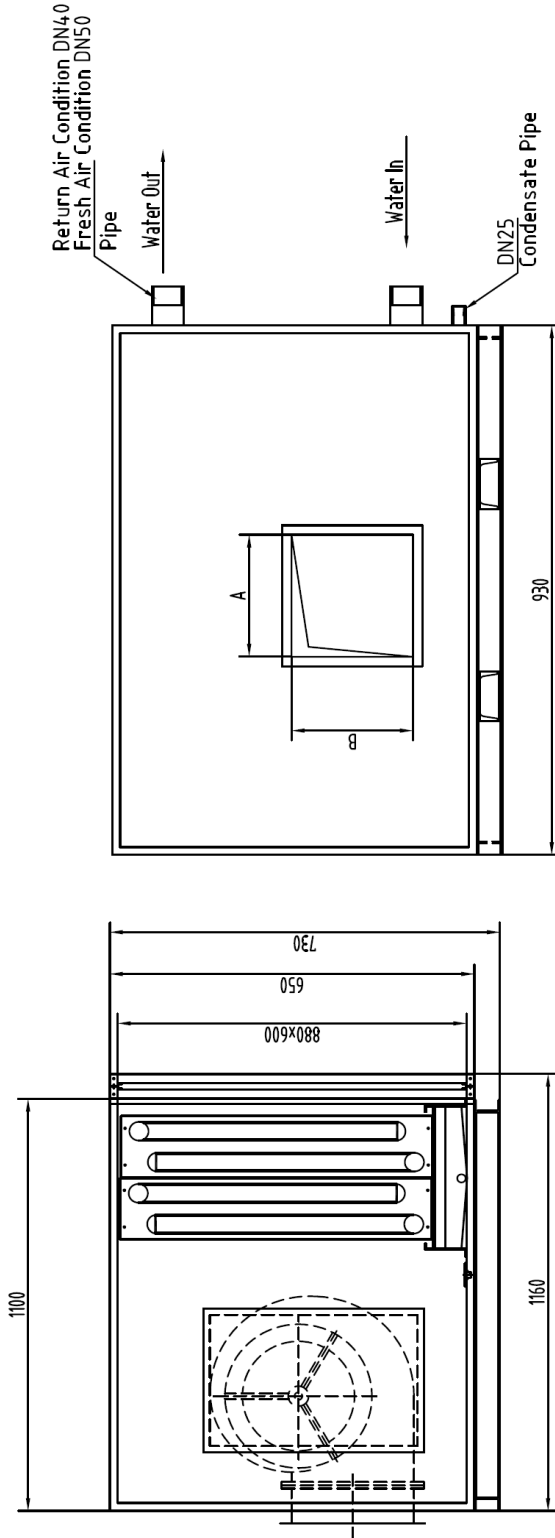
Note: The unit shown is of left hand type.

Air Flow l/s.	833			
External Overbottom Pressure Pa	190	140	200	270
Coil Rows: Cooling+Heating	4+1	6+1	6+1	4+1
Fan Model (Drive Type)	KDF2.25WS (Directdrive)	KDF2.51WS (Directdrive)	KDF2.51WS (Directdrive)	KDF2.51WS (Directdrive)
Air Spigot Size: AxB mm	300x221	282x262	340x262	340x262
Motor Power-Pole	0.55KW-4	0.55KW-4	0.55KW-4	0.55KW-4
A FLA	1.5A	1.5A	1.5A	1.5A
Voltage	415V/3PH/50HZ			
Coil Diameter mm/ Fins:Lengthxwidth mm	Ø9.52/670x508			
Filter:LengthxwidthxThickness mm/quantity	440x694x15/2			

DRAWN BY: GUO JINGPENG	DATE: 22/04/2010	
APPROVED O.A.J: WU MEIJUN	APPROVED ENG: ZHANG JINGFEI	
MODEL: LSPFP 030WII	DRAWING NO.: 01	TITLE: Water Cooled Fan Coil Unit LSPFP TYPE
	ISSUE: 01	SHEET SIZE: A4

# Packaged Air Handling Unit -Horizontal Model LSPFP30

Diagrams of: LSPFP 030AWI



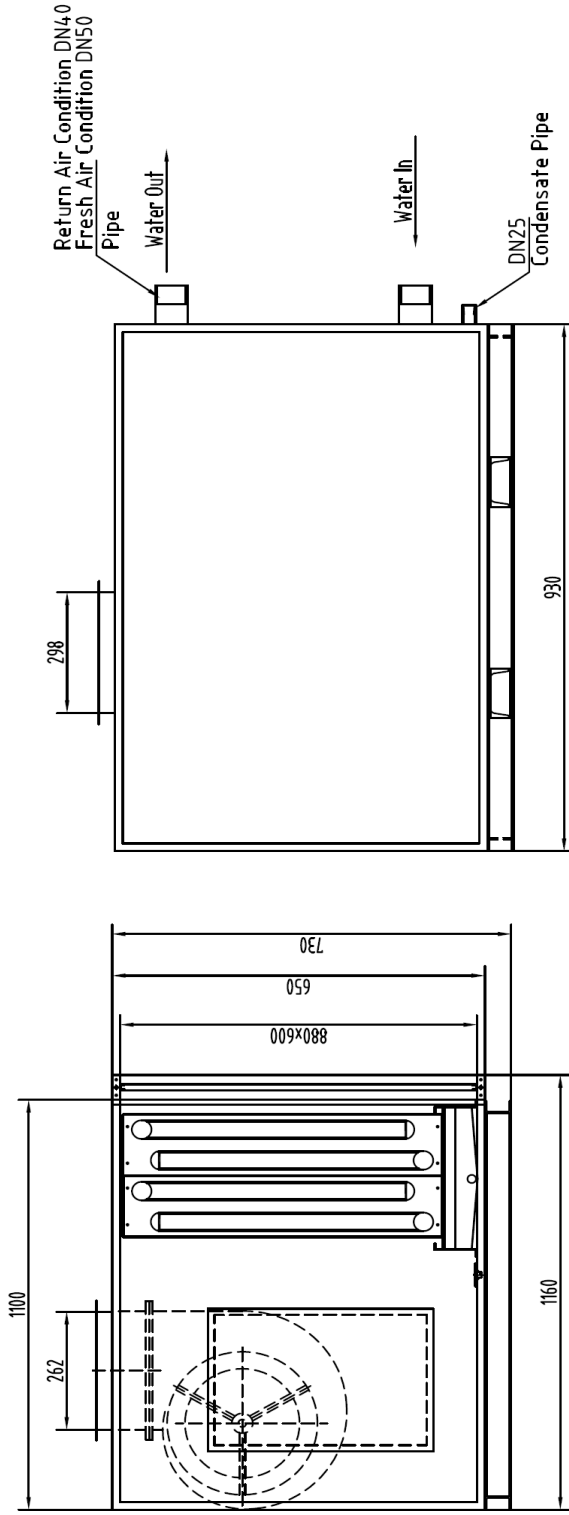
Note: The unit shown is of left hand type.

Air Flow l/s.	833					
External Overbottom Pressure Pa	190	14.0	250	200	270	220
Coil Rows: Cooling+Heating	4+1	6+1	4+1	6+1	4+1	6+1
Fan Model (Drive Type)	KDF2.25WS (Directdrive)		KDF2.51WS (Directdrive)		KDF2.51WS (Directdrive)	
Air Spigot Size: AxB mm	300x221	282x262		340x262		
Motor Power-Pole	0.55KW-4	0.55KW-4		0.55KW-4		
A FLA	1.5A	1.5A		1.5A		
Voltage	415V/3PH/50HZ					
Coil Diameter mm/Fins: length x width mm	ø9.52/670x508					
Filter: Length x width x Thickness mm/quantity	440x694x15/2					

DRAWN BY: GUO JINGPENG	DATE: 22/04/2010	<b>DUNNAIR</b>	
APPROVED O.A.: WU HEIJUN	APPROVED ENG: ZHANG JINGFEI	TITLE: Water Cooled Fan Coil Unit	
MODEL: LSPFP 030AWI	DRAWING NO.: 01	LSPFP TYPE	
	ISSUE: 01	SHEET SIZE: A4	

# Packaged Air Handling Unit -Horizontal Model LSPFP30

Diagrams of: LSPFP 030AWII



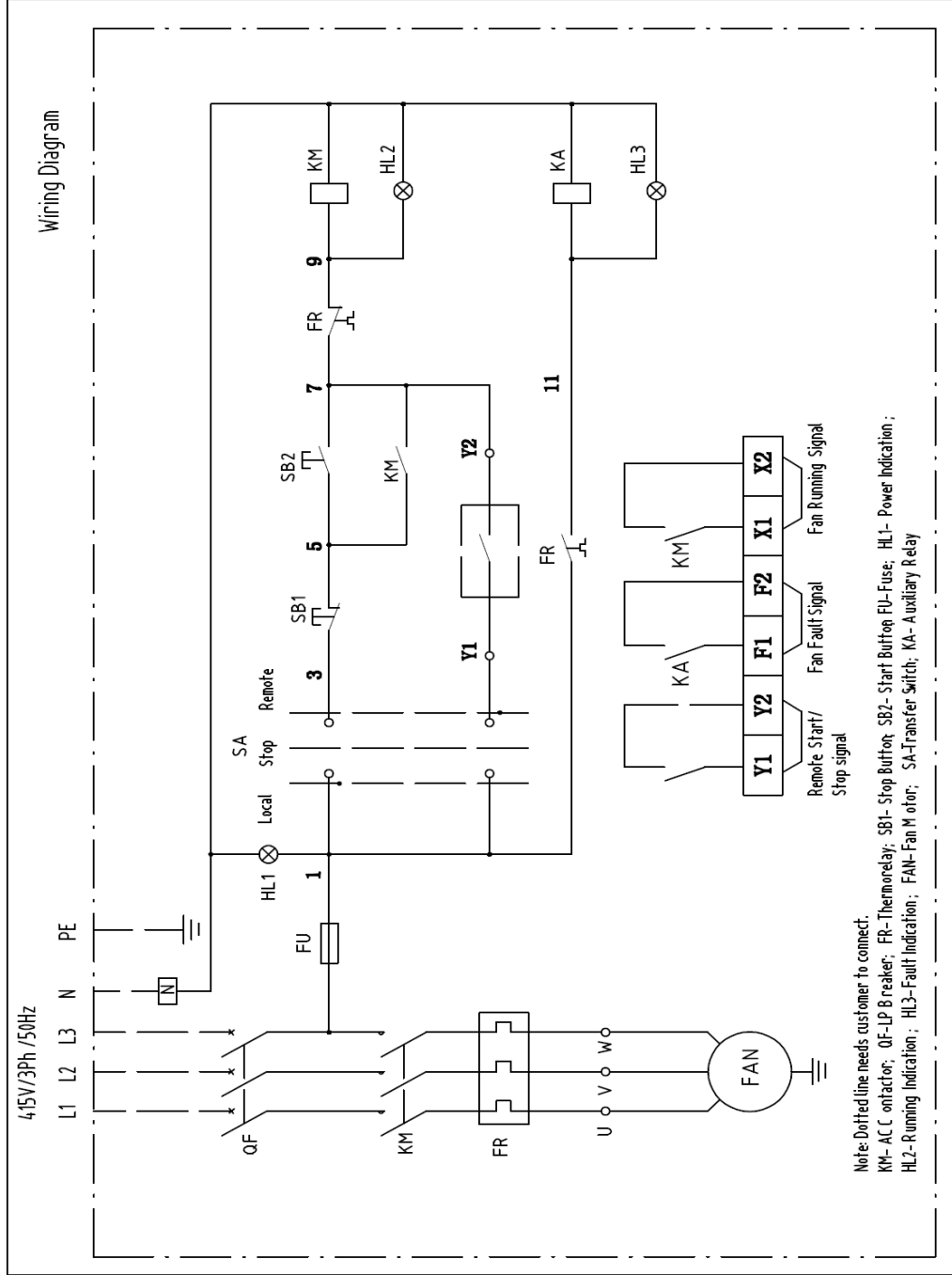
Note: The unit shown is of left hand type.

Air Flow l/s.	833					
External Overbottom Pressure Pa	190	140	250	200	270	220
Coil Rows: Cooling+Heating	4+1	6+1	4+1	6+1	4+1	6+1
Fan Model (Drive Type)	KDF2.25WS(Direct drive), 300x221		KDF2.5IIWS(Direct drive), 282x262		KDF2.5IIWS(Direct drive), 340x262	
Air Spigot Size: AxB mm	0.55KW-4		0.55KW-4		0.55KW-4	
Motor Power-Pole	1.5A		1.5A		1.5A	
A FLA	1.5A		1.5A		1.5A	
Voltage	415V/3Ph/50HZ					
Coil Diameter mm/Fins:Lengthxwidth mm	ø9.52/670x508					
Filter:LengthxwidthxThickness mm/quantity	440x694x15/2					

DRAWN BY: GUO JINGPENG	DATE: 22/04/2010	
APPROVED O.A.: WU WEIJUN	APPROVED ENG: ZHANG JINGFEI	
MODEL: LSPFP 030AWII	DRAWING NO.: 01	TITLE:Water Cooled Fan Coil Unit LSPFP TYPE
	ISSUE: 01	SHEET SIZE: A4

# Packaged Air Handling Unit -Horizontal Model LSF30

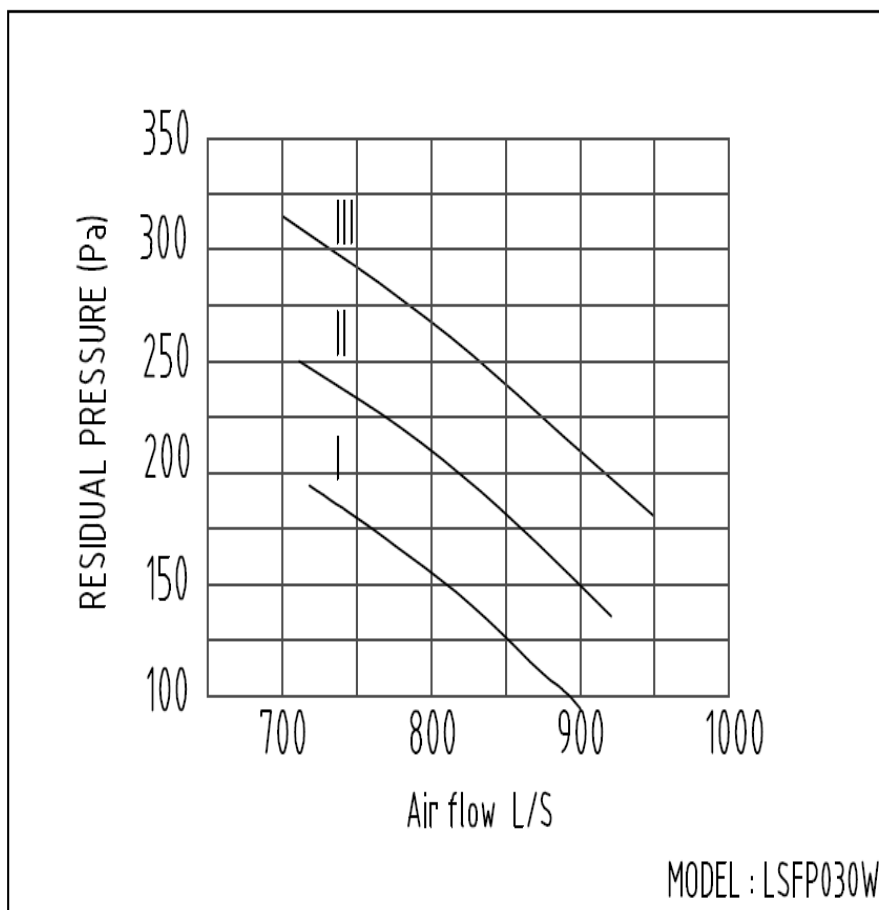
Direct starting type (motor power<5W)



DRAWN BY: GUO JINGPENG	DATE: 16/11/2009	
APPROVED D.A.: WU MEIJUN	APPROVED ENG.: ZHANG JINGFEI	TITLE: Water Cooled Fan Coil Unit LSFP TYPE
MODEL: LSFP010-270	DRAWING NO.: 01	ISSUE: 01
		SHEET SIZE: A4

# Packaged Air Handling Unit *Horizontal Model* LSFP30

## FAN CURVE



DRAWN BY: GUO JINGPENG	DATE: 18/11/2009		
APPROVED Q.A.: WU MEIJIAN	APPROVED ENG.: ZHANG JINGFEI	TITLE:Water Cooled Fan Coil Unit LSFP TYPE	
MODEL: LSFP030W	DRAWING NO.: 01	ISSUE: 01	SHEET SIZE: A4

# Packaged Air Handling Unit *Horizontal Model* LSFP30

## NOISE CURVE

