

ECO COOLER

HVAC SYSTEMS

2025
Fancoil Technical Catalog

TECHNICAL CATALOG

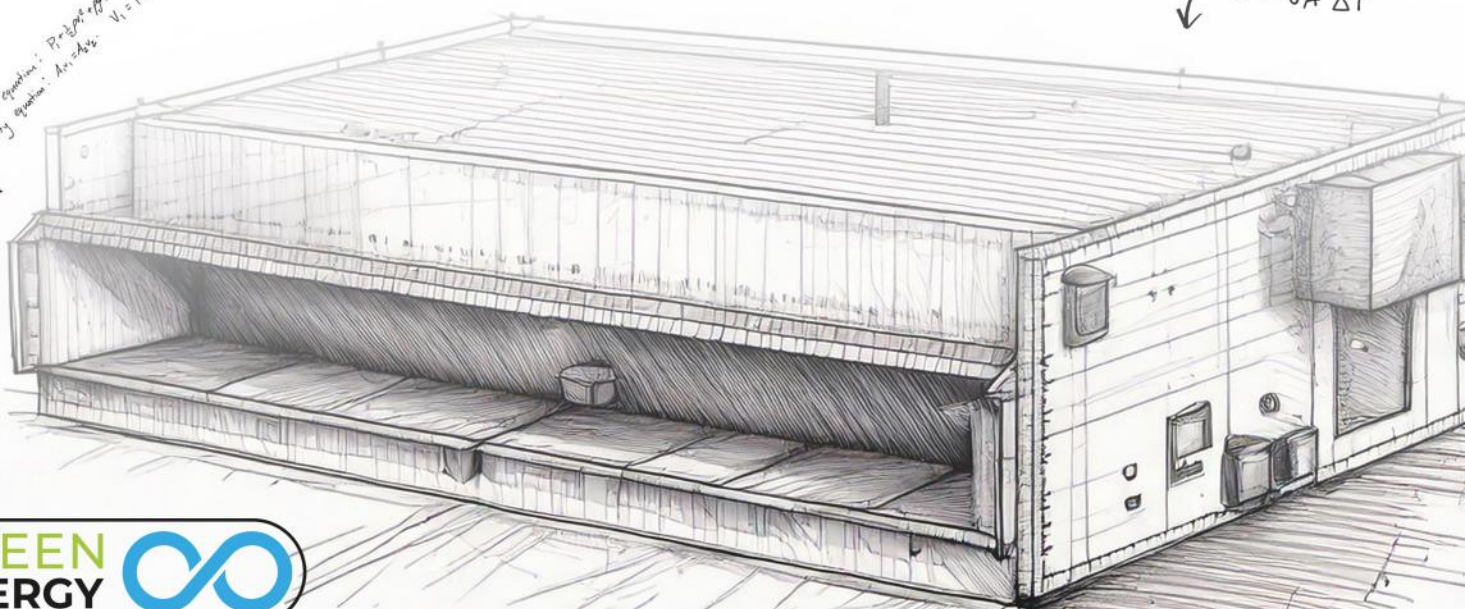
Bernoulli's equation: $P_1 + \rho g h_1 + \frac{1}{2} \rho v_1^2 = P_2 + \rho g h_2 + \frac{1}{2} \rho v_2^2$
Continuity equation: $A_1 v_1 = A_2 v_2$ $V_1 = 177 \frac{m}{s}$ $V_2 = 0$ $A_2 = 4m^2$

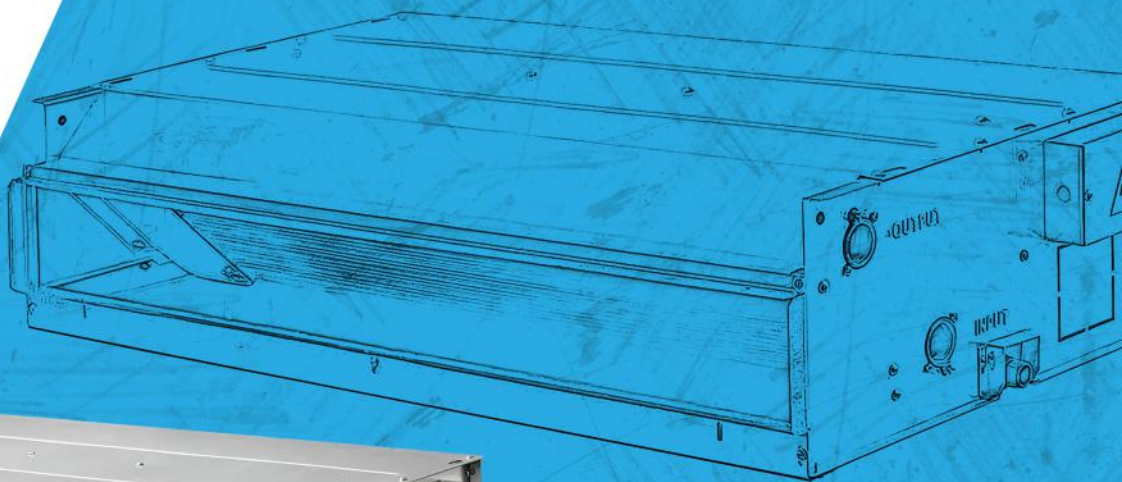
$$P_1 = 10^5 Pa + 10^5 Pa \quad P_2 = 10^5 Pa$$

$$P_1 - P_2 + \frac{1}{2} \rho v_1^2 - \frac{1}{2} \rho v_2^2 = \frac{1}{2} \rho v_2^2$$

$$Q = mc \Delta T$$

$$Q = UA \Delta T$$



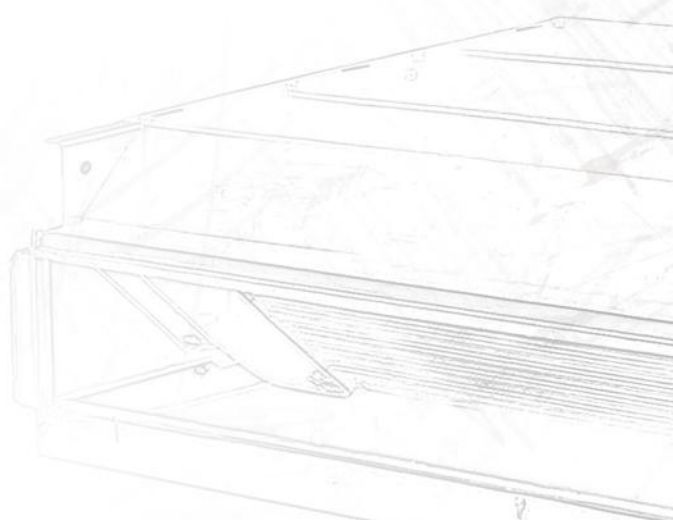


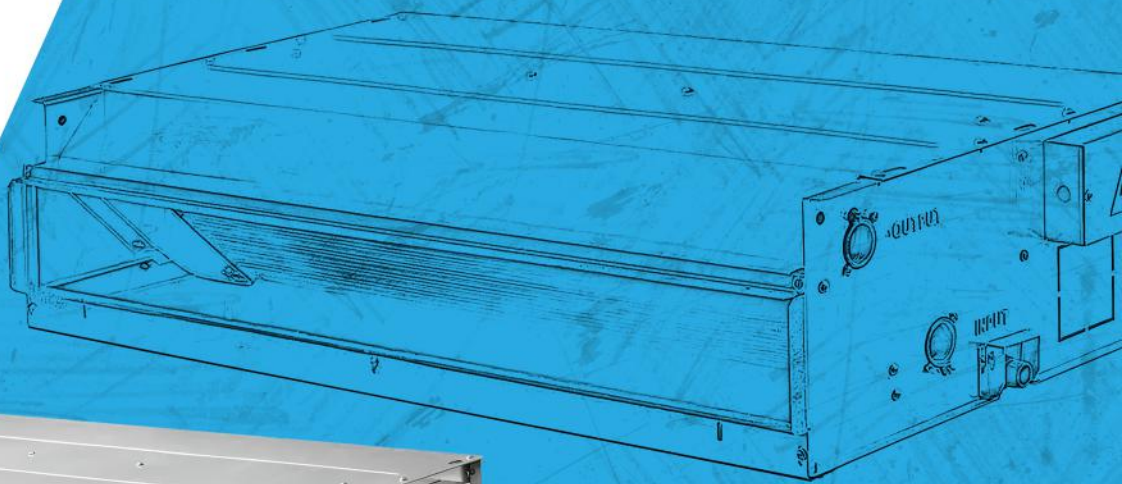
SILENT BUILT-IN CEILING FANCOIL

- Suitable For Installation In The Ceiling With a Low Height
- three Standard speeds with a low noise level
- Possibility of air return from below and behind
- An external Plastic Drain pan
- The possibility of removing fan and motor from below
- The possibility of using fresh air in the plenum
- Forged brass collector with Air vent and Drain Valve
- EVA Insulator: Drain Pan:5mm, Body :3mm

Model: SILENT
Capacity: 200-1200 CFM
Coil: 3/8- 3 Row - 12 FPI
Fan: Metallic Centrifugal Fan
Motor: ELECTROGEN
Filter: 2 Layer Aluminum
Static Pressure: 20 Pa

Model : SILENT				Ceiling Fan Coil						
COIL	MODEL			STFC0200	STFC0300	STFC0400	STFC0600	STFC0800	STFC1000	STFC1200
	AIR FLOW RATE (CFM)			200	300	400	600	800	1000	1200
	NOMINAL CAPACITY (BTU/HR)	COOLING	TOTAL	8900	10400	13500	19200	27500	30000	37000
		SENSIBLE	6000	6700	8800	12600	18300	19300	24200	
	HEATING			23200	24800	23100	45500	67500	70100	88200
	FACE AREA (SQ.FT)			0.9	1.1	1.3	1.6	2.4	2.4	2.4
	WATER FLOW RATE (GPM)			2	2.5	3	4	5	6	7
	PIPING CONNECTION (IN)			3/4	3/4	3/4	3/4	1	1	1
	FIN ROW/FPI			3/12	3/12	3/12	3/12	3/12	3/12	3/12
	Water Prrsure Drop (psi)			0.7	1.2	2	3.5	7	7	10
MOTOR	POWER SUPPLY (V/Hz)			220-240/50						
	INPUT POWER (HP)			1/20	1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR			1	1	1	1	2	2	2
	CLASS			ELECTROGEN (CLASS :A)						
	MAX RPM			1100	1100	1100	1100	1100	1100	1100
FAN	TYPE			Centrifugal Fan (Metalic Forward Curved)						
	NO OF FAN			1	1	2	2	3	3	4
	AIR FLOW RATE (CFM)			250	400	250	400	400	400	400
	NOISE LEVEL (DB)			36	37	39	40	40	42	42
BODY	DIMENSION (L*W*H)		CM	67*55*24	77*55*24	87*55*24	102*55*24	132*55*24	142*55*24	152*55*24
	NET WEIGHT (Kg)			20	23	27	30	35	38	44
	FILTER			Aluminum (Optional Synthetic Nylon)						
	DRAIN PAN/ CONNECTION			Galvanized / 1/2						



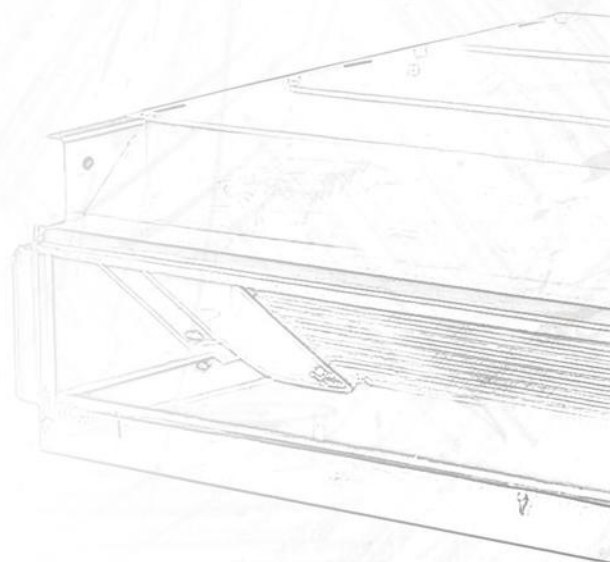


SLIM BUILT-IN CEILING FANCOIL

- Suitable For Installation In The Ceiling With a Low Height
- three Standard speeds with a low noise level
- Possibility of air return from below and behind
- An external Plastic Drain pan
- The possibility of removing fan and motor from below
- The possibility of using fresh air in the plenum
- Forged brass collector with Air vent and Drain Valve
- EVA Insulator: Drain Pan:5mm, Body :3mm

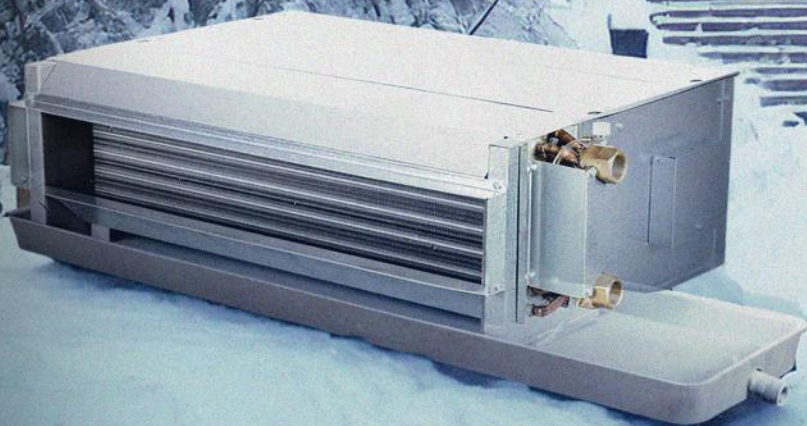
Model: SLIM
Capacity: 200-1200 CFM
Coil: 3/8- 3 Row - 12 FPI
Fan: Metallic Centrifugal Fan
Motor: ELECTROGEN
Filter: 2 Layer Aluminum
Static Pressure: 20 Pa

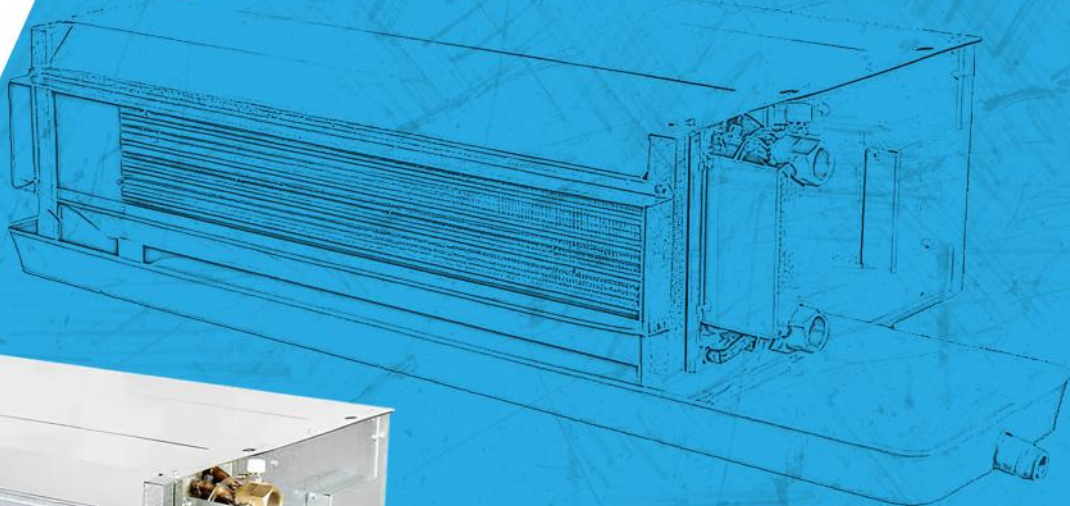
Model : SLIM				Ceiling Fan Coil						
COIL	MODEL			SLFC0200	SLFC0300	SLFC0400	SLFC0600	SLFC0800	SLFC1000	SLFC1200
	AIR FLOW RATE (CFM)			200	300	400	600	800	1000	1200
	NOMINAL CAPACITY (BTU/HR)	COOLING	TOTAL	8500	9900	12900	18300	26200	28600	35200
		SENSIBLE		5800	6400	8400	12000	17400	18400	23000
		HEATING		22100	23600	30600	43400	64300	66700	84000
	FACE AREA (SQ.FT)			0.9	1.1	1.3	1.6	2.4	2.4	2.4
	WATER FLOW RATE (GPM)			2	2.5	3	4	5	6	7
	PIPING CONNECTION (IN)			3/4	3/4	3/4	3/4	3/4	3/4	3/4
	FIN ROW/FPI			3/12	3/12	3/12	3/12	3/12	3/12	3/12
	Water Pressure Drop (psi)			0.7	1.2	2	3.5	7	7	10
MOTOR	POWER SUPPLY (V/Hz)			220-240/50						
	INPUT POWER (HP)			1/20	1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR			1	1	1	1	2	2	2
	CLASS			ELECTROGEN (CLASS :A - 7 Mode)						
	MAX RPM			1100	1100	1100	1100	1100	1100	1100
FAN	TYPE			Centrifugal Fan (Metalic Forward Curved)						
	NO OF FAN			1	1	2	2	3	3	4
	AIR FLOW RATE (CFM)			300	300	200	300	300	300	300
	NOISE LEVEL (DB)			40	40	42	42	42	44	46
BODY	DIMENSION (L*W*H)		CM	67*52*21	77*52*21	87*52*21	102*52*21	132*52*21	142*52*21	152*52*21
	NET WEIGHT (Kg)		18	21	25	28	32	36	42	
	FILTER		Aluminum (Optional Synthetic Nylon)							
	DRAIN PAN/ CONNECTION		Galvanized / 1/2							



OPTIMAL COOLING

Minimal Energy



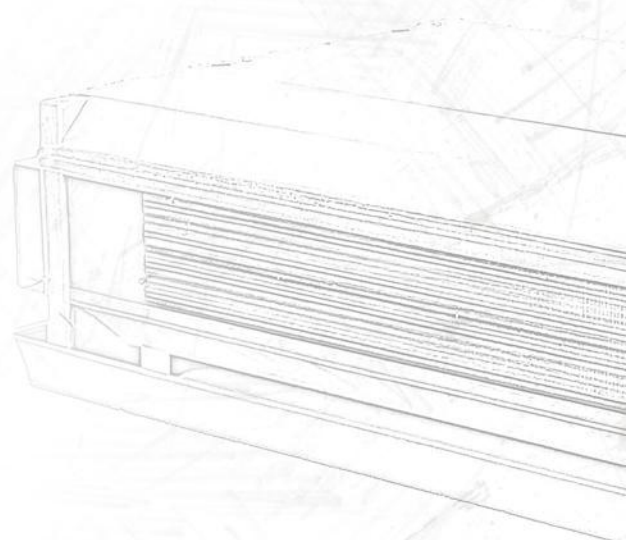


STANDARD BUILT-IN CEILING FANCOIL

- Suitable For Installation In The Ceiling With a Low Height
- three Standard speeds with a low noise level
- Possibility of air return from below and behind
- The possibility of removing fan and motor from below
- The possibility of using fresh air in the plenum
- Forged brass collector with Air vent and Drain Valve
- EVA Insulator: Drain Pan:5mm, Body :3mm

Model: STANDARD
Capacity: 200-1200 CFM
Coil: 3/8- 3 Row - 12 FPI
Fan: Metallic Centrifugal Fan
Motor: ELECTROGEN
Filter: 2 Layer Aluminum
Static Pressure: 20 Pa

Model : STANDARD				Ceiling Fan Coil						
COIL	MODEL			SDFC0200	SDFC0300	SDFC0400	SDFC0600	SDFC0800	SDFC1000	SDFC1200
	AIR FLOW RATE (CFM)			200	300	400	600	800	1000	1200
	NOMINAL CAPACITY (BTU/HR)	COOLING	TOTAL	8500	9900	12900	18300	26200	28600	35200
		SENSIBLE	5800	6400	8400	12000	17400	18400	23000	
	HEATING	22100	23600	30600	43400	64300	66700	84000		
	FACE AREA (SQ.FT)			0.9	1.1	1.3	1.6	2.5	2.6	2.6
	WATER FLOW RATE (GPM)			2	2.5	3	4	5	6	7
	PIPING CONNECTION (IN)			3/4	3/4	3/4	3/4	3/4	3/4	3/4
	FIN ROW/FPI			3/12	3/12	3/12	3/12	3/12	3/12	3/12
	Water Pressure Drop (psi)			0.7	1.2	2	3.5	7	10	10
MOTOR	POWER SUPPLY (V/Hz)			220-240/50						
	INPUT POWER (HP)			1/20	1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR			1	1	1	1	2	2	2
	CLASS			ELECTROGEN (CLASS :A)						
FAN	MAX RPM			1100	1100	1100	1100	1100	1100	1100
	TYPE			Centrifugal Fan (Metalic Forward Curved)						
	NO OF FAN			1	1	2	2	3	4	4
	AIR FLOW RATE (CFM)			300	300	200	300	300	300	400
BODY	NOISE LEVEL (DB)			36	37	39	40	40	42	42
	DIMENSION (L*W*H)		CM	80*52*24	90*52*24	100*52*24	115*52*24	155*52*24	155*52*24	155*52*24
	NET WEIGHT (Kg)			15	17	21	24	30	33	37
	FILTER			Aluminum (Optional Synthetic Nylon)						
DRAIN PAN/ CONNECTION			Galvanized / 3/4							





MEDIUM-STATIC DUCT FANCOIL

- Suitable For Installation In The Ceiling With a Low Height
- three Standard speeds with a low noise level
- Possibility of air return from below and behind
- The possibility of removing fan and motor from below
- The possibility of using fresh air in the plenum
- Forged brass collector with Air vent and Drain Valve
- EVA Insulator: Drain Pan:5mm, Body :3mm

Model: MDFC
Capacity: 600-2000 CFM
Coil: 3/8- 4 Row - 12 FPI
Fan: Metallic Centrifugal Fan
Motor: ELECTROGEN
Filter: 2 Layer Aluminum
Static Pressure: 20 Pa

Model : DUCTED FAN COIL				Ceiling Ducted Fan Coil							
COIL	MODEL			MDFC0600	MDFC0800	MDFC1000	MDFC1200	MDFC1400	MDFC1600	MDFC1800	MDFC2000
	AIR FLOW RATE (CFM)			600	800	1000	1200	1400	1600	1800	2000
	NOMINAL CAPACITY (BTU/HR)	COOLING	TOTAL	25200	29500	33600	37600	44200	50400	54600	57900
		SENSIBLE	16800	20000	23100	26200	29000	33100	36200	38900	
	HEATING		50500	63600	76500	88200	104800	121000	132800	144000	
	FACE AREA (SQ.FT)			1.5	1.9	2	2.4	2.7	3	3	3.5
	WATER FLOW RATE (GPM)			5	6	6.5	7.5	9	10	11	11.5
	PIPING CONNECTION (IN)			1	1	1	1	1	1	1	1
	FIN ROW/FPI			4/12	4/12	4/12	4/12	4/12	4/12	4/12	4/12
	Water Prrsure Drop (psi)			2	2.8	3.5	4.5	7.5	9.5	11	12
MOTOR	POWER SUPPLY (V/Hz)			220-240/50							
	INPUT POWER (W)			187	187	187	187	187	187+60	187+80	187+80
	NO OF MOTOR			1	1	1	1	1	2	2	2
	CLASS			ELECTROGEN (CLASS :A)							
FAN	MAX RPM			1100	1100	1100	1100	1100	1100	1100	1100
	TYPE			Centrifugal Fan (Metalic Forward Curved)							
	NO OF FAN			2	2	2	2	2	3	3	3
	AIR FLOW RATE (CFM)			400	600	600	750	750	600	750	750
BODY	NOISE LEVEL (DB)			48	50	52	52	54	58	60	62
	DIMENSION (L*W*H)		CM	100*48*25	100*48*30	105*48*30	120*48*30	130*48*30	140*48*30	140*48*30	140*50*35
	NET WEIGHT (Kg)			30	33	36	40	45	50	52	54
	FILTER			Aluminum (Optional Synthetic Nylon)							
DRAIN PAN/ CONNECTION				Galvanized / 3/4							





REFRESH WITH NATURE'S POWER!



ECO COOL_{ER}

Thank you

FOR CHOOSING US FOR CLEAN AIR AND COMFORTABLE LIVING SPACES.

We will always strive to provide the best for your health.

ECO COOLER

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