

BROCHURE

Single Condenser

ThermalTrue®
HVAC & R

Single Condenser Series SCU-L



SCU	20, 25, 30, 40, 50, 60, 75, 90, 100, 125, 150 30, 40, 50, 60, 75, 100, 125, 150 150, 200, 250, 300 150, 200, 250, 300, 400, 500 300, 400, 500, 600	L TF M1 M2 V1 V2	X407 X410	SA/HA/CA
Series	Capacity in kBTU/h	Sub Series	R407c	SA : Std Ambient 35°C HA : High Ambient 45°C CA : Corrosive Ambient EX : Explosive Ambient

Single Condensing Unit SCU-L Series			Model	SCU20L	SCU25L	SCU30L	SCU40L	SCU50L	SCU60L	
GENERAL DATA										
CAPACITY	Total Capacity	Btu/h	20.000	25.000	30.000	40.000	50.000	60.000		
		kW	6	7	9	12	15	18		
		kCal/h	5.038	6.298	7.558	10.077	12.596	15.115		
AIR FLOW		CFM	2.031	2.001	1.913	4.709	4.591	4.356		
		CMH	3.450	3.400	3.250	8.000	7.800	7.400		
		L/s	958	944	903	2.222	2.167	2.056		
CASING	Frame	Anodised/Powder Coated extruded aluminium profile and corner piece								
	Panel	GI with Powder Coat Finish								
DIMENSION	Height	mm	650	650	650	850	850	850		
	Width	mm	800	800	800	950	950	950		
	Depth	mm	350	350	350	450	450	450		
CONNECTION	Type	Braze Joint								
	Gas	in	3/4	3/4	7/8	7/8	7/8	7/8		
	Liquid	in	3/8	3/8	3/8	3/8	3/8	1/2		
COIL SPECIFICATION										
COIL	Type	Aluminium fin mechanically bonded to seamless copper tube								
	Face Area	m2	0,51	0,51	0,51	0,84	0,84	0,84		
	Entering (DB/WB)	°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0		
	Leaving (DB/WB)	°C/°C	43.1/26.1	44.3/26.4	46.1/26.8	42.0/25.8	43.0/26.0	44.6/26.4		
	Face Velocity	m/s	1,89	1,87	1,78	2,65	2,58	2,45		
	ΔP	Pa	19	23	31	34	40	53		
FAN & MOTOR SPECIFICATION										
FAN	Type	Coated GI Fan Blade with External Rotor Motor & Fan Guard								
	Diameter	mm	400	400	400	550	550	550		
	Quantity	Set	1	1	1	1	1	1		
	Power Supply	V-Ø-Hz	380/415-3-50							
	Rated Running Current (Each)	A	0,5	0,5	0,5	1,2	1,2	1,2		
	Rated Power Input (Each)	W	180	180	180	600	600	600		
COMPRESSOR										
COMPRESSOR	Type	Hermetic Scroll (R407c Series)								
	Capacity	mm	2.0hp	2.5hp	3.0hp	4.0hp	5.0hp	6.0hp		
	Quantity	Set	1	1	1	1	1	1		
	Power Supply	V-Ø-Hz	380/415-3-50							
	Rated Cooling Capacity	kW	6,6	7,8	9,2	11,4	14,3	16,6		
	Rated Running Current (Each)	A	3,9	4,7	5,4	6,6	7,7	9,1		
	Rated Power Input (Each)	kW	2,2	2,6	3,0	3,6	4,5	5,2		
	COP		3,02	3,03	3,06	3,15	3,17	3,22		
	Electrical	Contactor & Overload								
	Pressure Switch	High & Low Pressure Switch								

Single Condensing Unit SCU-L Series		Model	SCU75L	SCU90L	SCU100L	SCU125L	SCU150L
GENERAL DATA							
CAPACITY	Total Capacity	Btu/h	75.000	90.000	100.000	125.000	150.000
		kW	22	26	29	37	44
		kCal/h	18.894	22.673	25.192	31.490	37.788
AIR FLOW		CFM	5.739	5.739	5.592	9.182	8.711
		CMH	9.750	9.750	9.500	15.600	14.800
		L/s	2.708	2.708	2.639	4.333	4.111
CASING	Frame	Anodised/Powder Coated extruded aluminium profile and corner piece					
	Panel	GI with Powder Coat Finish					
DIMENSION	Height	mm	950	950	950	1.150	1.150
	Width	mm	1.050	1.050	1.050	1.350	1.350
	Depth	mm	550	550	550	550	550
CONNECTION	Type	Brazed Joint					
	Gas	in	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
	Liquid	in	1/2	5/8	5/8	3/4	5/8
COIL SPECIFICATION							
COIL	Type	Aluminium fin mechanically bonded to seamless copper tube					
	Face Area	m ²	1,21	1,21	1,21	1,82	1,82
	Entering (DB/WB)	°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0
	Leaving (DB/WB)	°C/°C	44.3/26.4	45.0/26.5	47.4/27.1	44.0/26.3	47.2/27.0
	Face Velocity	m/s	2,24	2,24	2,18	2,39	2,27
	ΔP	Pa	38	46	53	43	57
FAN & MOTOR SPECIFICATION							
FAN	Type	Coated GI Fan Blade with External Rotor Motor & Fan Guard					
	Diameter	mm	630	630	630	550	550
	Quantity	Set	1	1	1	2	2
	Power Supply	V-Ø-Hz	380/415-3-50				
	Rated Running Current (Each)	A	1,6	1,6	1,6	1,2	1,2
	Rated Power Input (Each)	W	800	800	800	600	600
COMPRESSOR							
COMPRESSOR	Type	Hermetic Scroll (R407c Series)					
	Capacity	mm	7.5hp	9.0hp	10.0hp	12.5hp	15.0hp
	Quantity	Set	1	1	1	1	1
	Power Supply	V-Ø-Hz	380/415-3-50				
	Rated Cooling Capacity	kW	23,0	25,8	30,2	34,6	44,0
	Rated Running Current (Each)	A	12,8	13,8	16,0	17,7	26,5
	Rated Power Input (Each)	kW	7,0	7,6	9,0	10,2	13,7
	COP		3,31	3,40	3,37	3,41	3,22
	Electrical	Contactor & Overload					
	Pressure Switch	High & Low Pressure Switch					

● SCU20_30L

SCU-L-030 (L Coil Version)

- Dimension : 650mm (H) x 880mm (W) x 400mm (D)
- Coil : Ø3/8" x 24TH x 843mm (FL) x 2R x 16FPI x 2C
- Fan Condenser : YWF40-400S-137/70
- Compressor : ZR40-K3E-TFD
- Liquid Pipe : Ø3/8"
- Suction Pipe : Ø3/4"

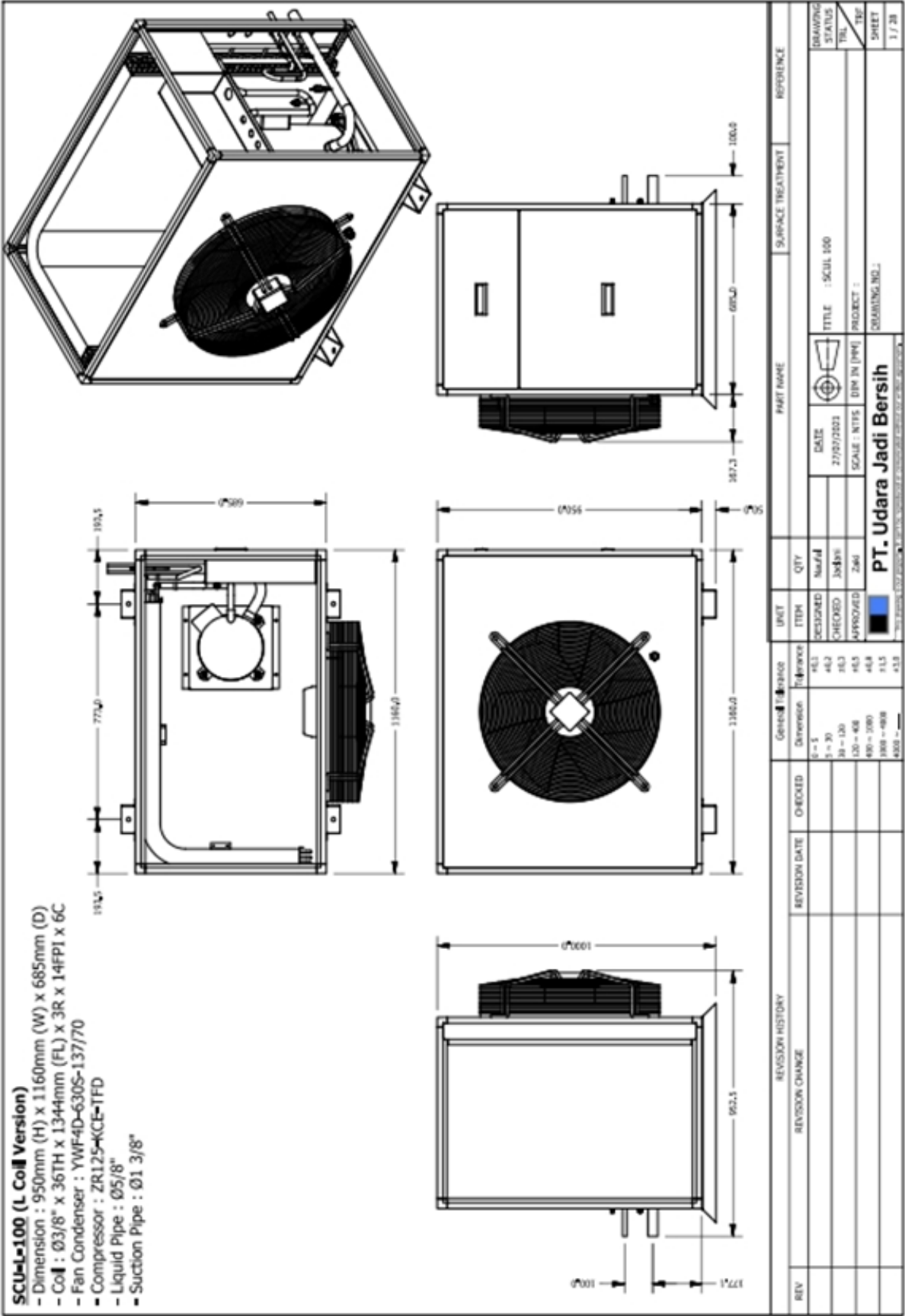


SCU-L-060 (L Coil Version)

- Dimension : 850mm (H) x 980mm (W) x 510mm (D)
- Coil : Ø3/8" x 321H x 1048mm (FL) x 2R x 16FP1 x 4C
- Fan Condenser : YW/F4D-600S-137/70
- Compressor : ZR72-KCE-TFD
- Liquid Pipe : Ø1/2"
- Suction Pipe : Ø7/8"

REVISION HISTORY				General Tolerance		UNIT	PART NAME		SURFACE TREATMENT		REFERENCE	
REV	REVISION CHANGE		REVISION DATE	CHECKED	Dimension	Tolerance	ITEM	QTY				
					0 - 5	+/-1	DRAWN	N/A			TITLE : SCUL 060	
					5 - 30	+/-2	CHECKED	3x4x5	DATE 21/08/2021			PROJECT :
					30 - 120	+/-3	APPROVED	T=+0.00	SCALE : NTPS			
					120 - 400	+/-5						
					400 - 1000	+/-8						
					1000 - 4000	+/-15						
					4000 - ...	+/-25						
PT. Udara Jadi Bersih Unit: mm unless otherwise specified. All dimensions are nominal.												

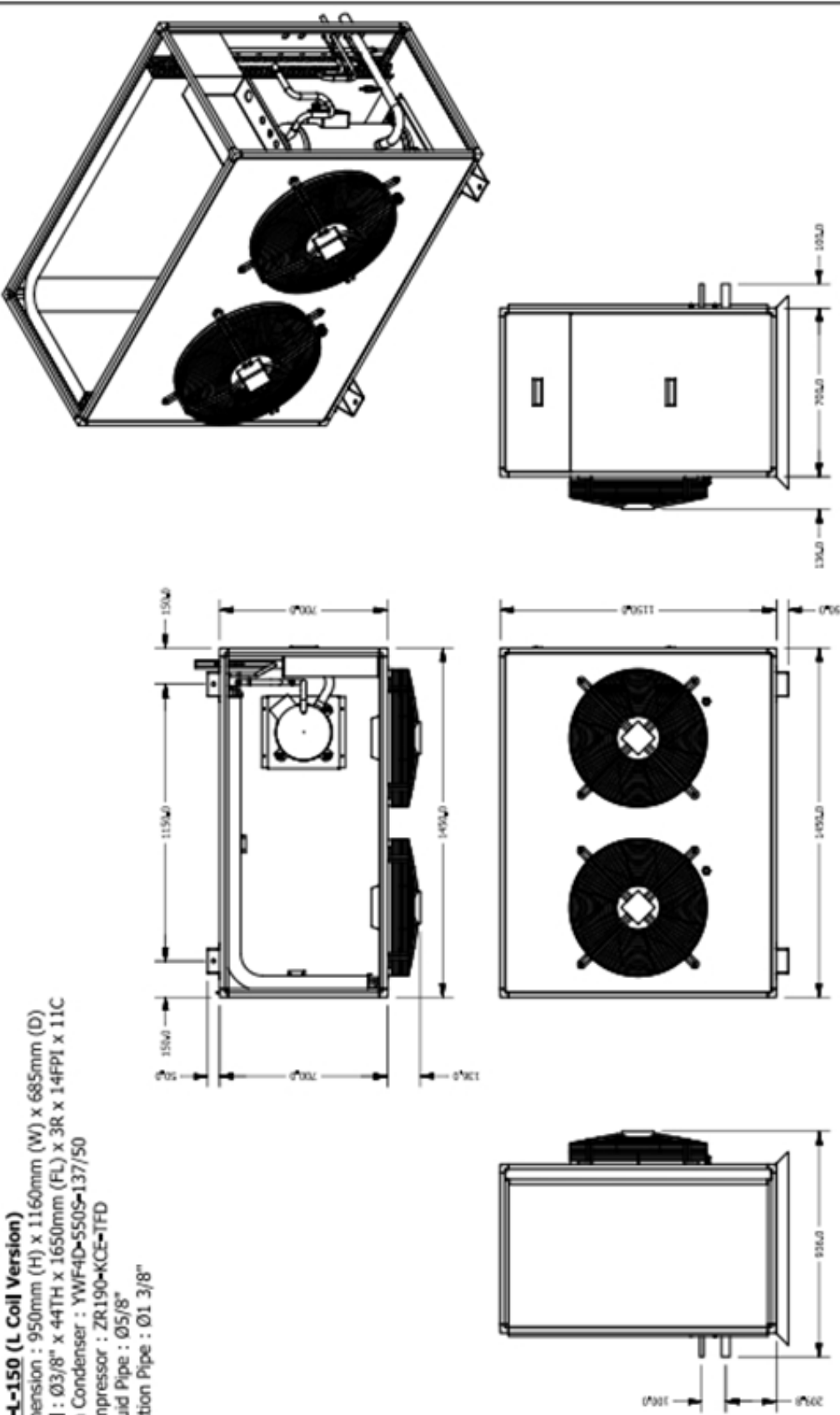
SCU75_100L



SCU125_150L

SCU-L-150 (L Coil Version)

- Dimension : 950mm (H) x 1160mm (W) x 685mm (D)
- Coil : Ø3/8" x 44TH x 1650mm (FL) x 3R x 14FPI x 11C
- Fan Condenser : YWF4D-S50S-137/50
- Compressor : ZR190-KCE-TFD
- Liquid Pipe : Ø5/8"
- Suction Pipe : Ø1 3/8"



REVISION HISTORY			REVISION CHANGE			REVISION DATE			CHECKED			General Tolerance			UNIT			PART NAME			SURFACE TREATMENT			REFERENCE		
REV																										



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