KETERANGAN :

PIPA REFRIGERANT AC

KABEL TRANSMISI AC

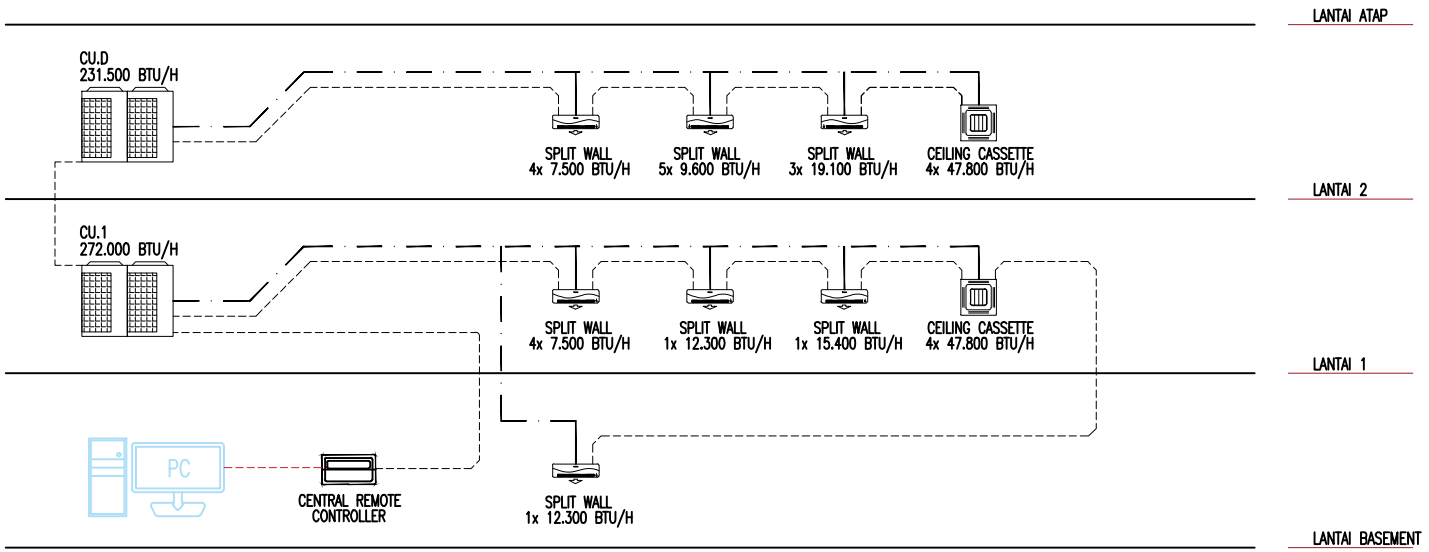


DIAGRAM SKEMATIK AC VRF

SKALA : NTS

NAMA BANGUNAN

GEDUNG ADMISI UMY

UNIVERSITAS MUHAMMADIYAH YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir.GUNAWAN BUDIYANTO, M.P.
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.
WAKIL REKTOR III

TIM PERENCANA UMY

	NAMA	PARAF
TIM LEADER	BAGUS S, ST., M.Eng	
ARSITEK	ARWAN S, ST., M.Sc	
STRUKTUR	YOGA A.H, ST., M.Eng	
MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

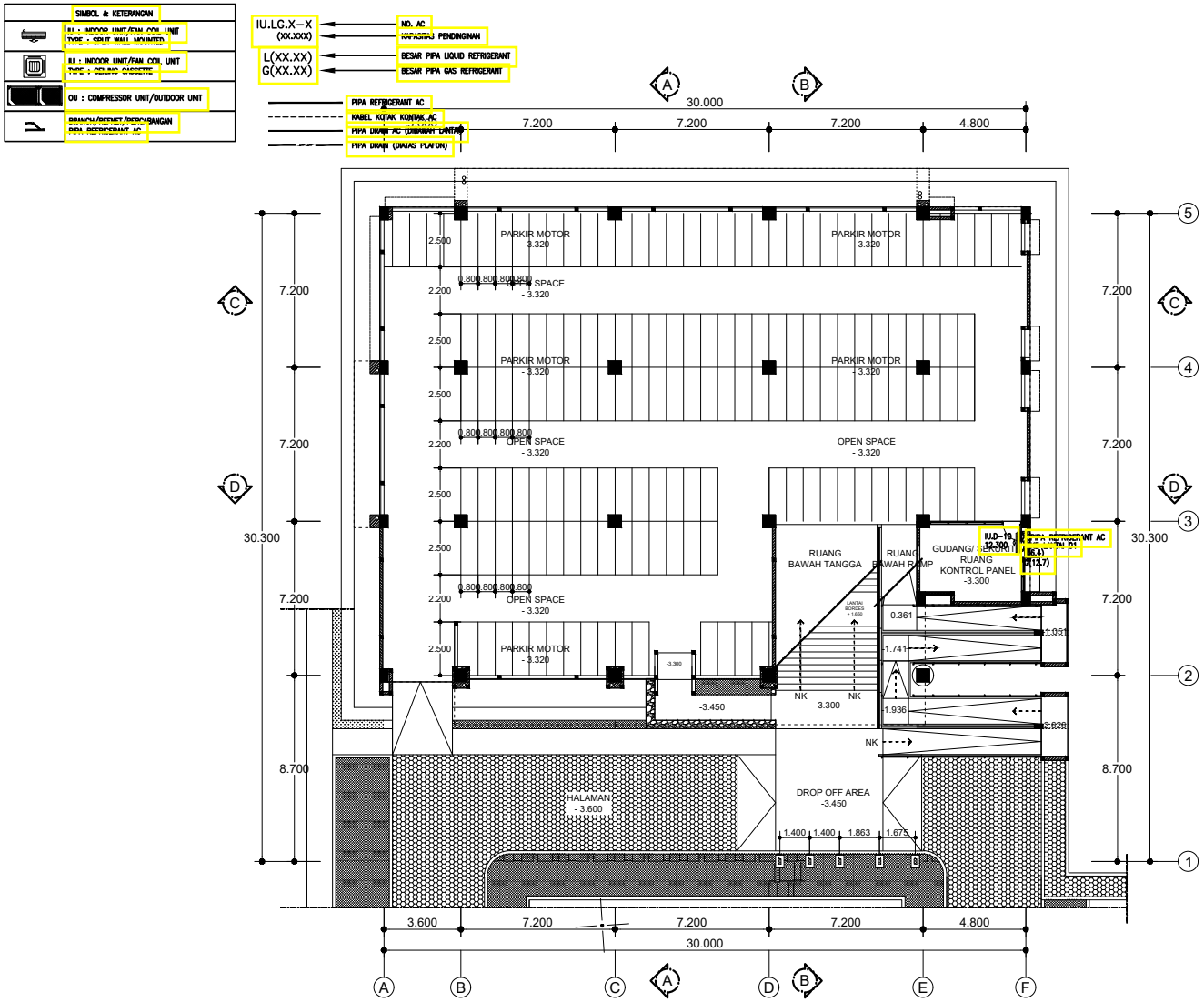
JUDUL GAMBAR	SKALA
DIAGRAM SKEMATIK AC VRF	NTS

CATATAN/ KETERANGAN

REVISI

NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STOR AC-REF	1	



RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI DASAR

SKALA 1 : 200

NAMA BANGUNAN

GEDUNG ADMISI UMY

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JUDUL GAMBAR	SKALA
RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI DASAR	1 : 200

CATATAN/ KETERANGAN

REVISI

NO.	URAIAN	TANGGAL	PARAF

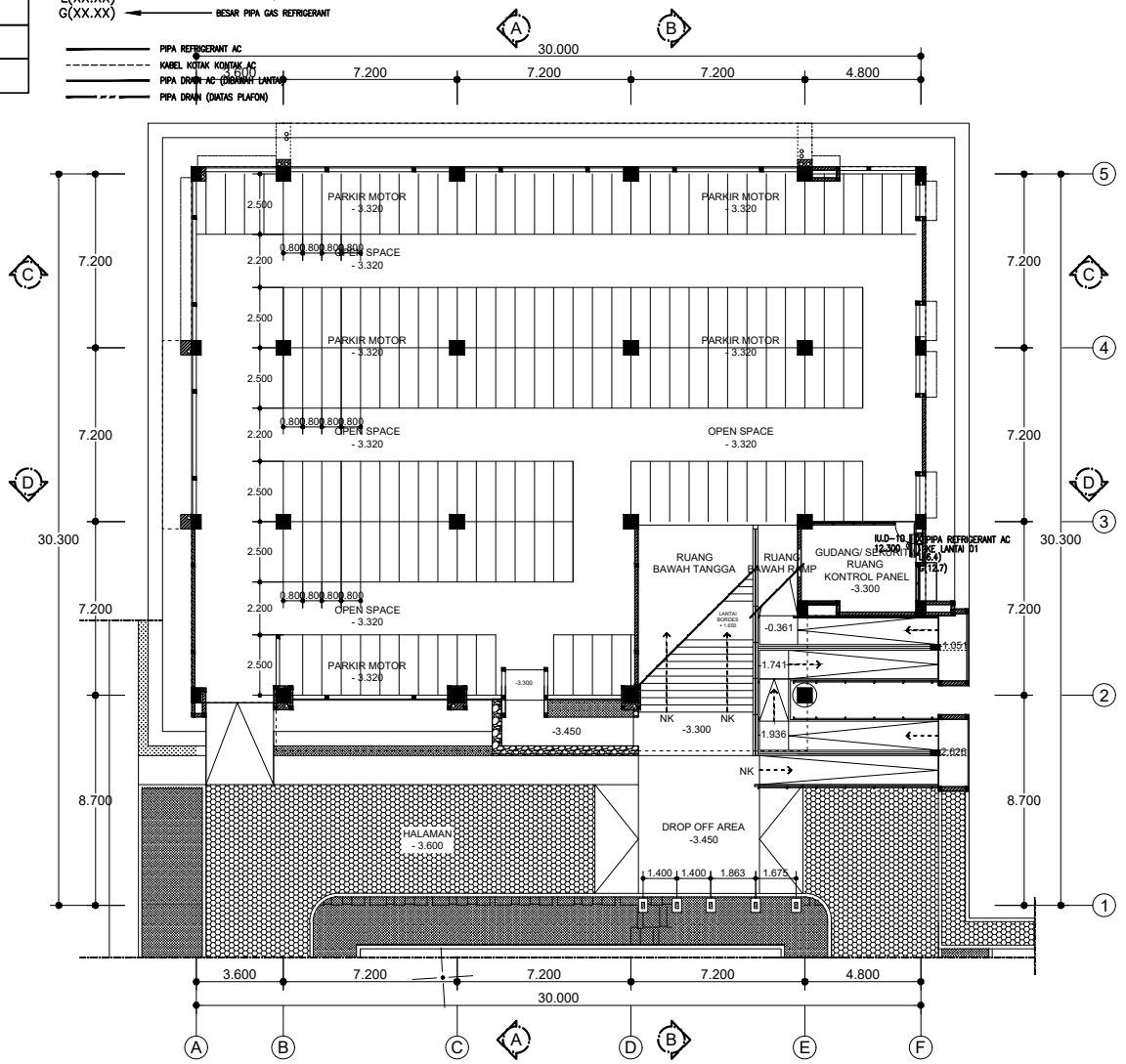
KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR	1	

SIMBOL & KETERANGAN	
	IU : INDOOR UNIT/FAN COIL UNIT TYPE : SPLIT WALL MOUNTED
	IU : INDOOR UNIT/FAN COIL UNIT TYPE : CEILING CASSETTE
	OU : COMPRESSOR UNIT/OUTDOOR UNIT
	BRANCH/REFNET/PERCABANGAN PIPA REFRIGERANT AC

IU.LG.X–X ← NO. AC
(XX.XXX) ← KAPASITAS PENDINGINAN

L(XX.XX) ← BESAR PIPA LIQUID REFRIGERANT
G(XX.XX) ← BESAR PIPA GAS REFRIGERANT

PIPA REFRIGERANT AC
KABEL KOTAK KONTAK AC
PIPA DRAIN AC (DIBAWAH LANTAI)
PIPA DRAIN (DIATAS PLAFON)



RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI DASAR

SKALA 1 : 200

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GEDUNG ADMISI UMY

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DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI DASAR	1 : 200

CATATAN/ KETERANGAN

REVISI

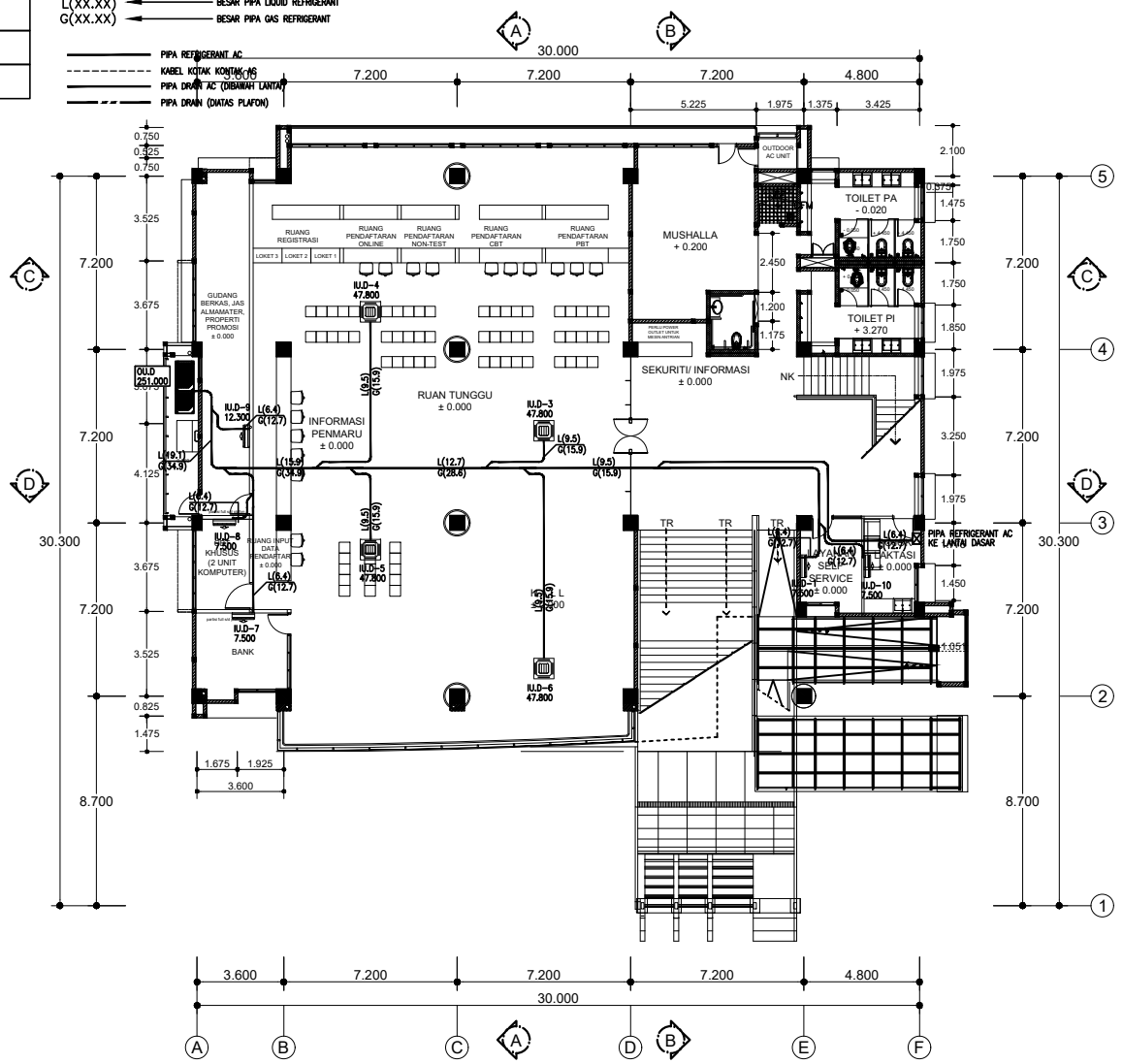
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STOR	1	

SIMBOL & KETERANGAN	
	IU : INDOOR UNIT/FAN COIL UNIT TYPE : SPLIT WALL MOUNTED
	IU : INDOOR UNIT/FAN COIL UNIT TYPE : CEILING CASSETTE
	OU : COMPRESSOR UNIT/OUTDOOR UNIT
	BRANCH/REFNET/PERCABANGAN PIPA REFRIGERANT AC

IU.LG.X–X — NO. AC
(XX.XXX) — KAPASITAS PENDINGINAN
L(XX.XX) — BESAR PIPA LIQUID REFRIGERANT
G(XX.XX) — BESAR PIPA GAS REFRIGERANT

PIPA REFRIGERANT AC
KABEL KOTAK KONTAK/AS
PIPA DRAIN AC (DIBAWAH LANTAI)
PIPA DRAIN (DIATAS PLAFON)



RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI 01

SKALA 1 : 200

NAMA BANGUNAN

GEDUNG ADMISI UMY

UNIVERSITAS MUHAMMADIYAH YOGYAKARTA

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WAKIL REKTOR III

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MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI 01	1 : 200

CATATAN/ KETERANGAN

REVISI

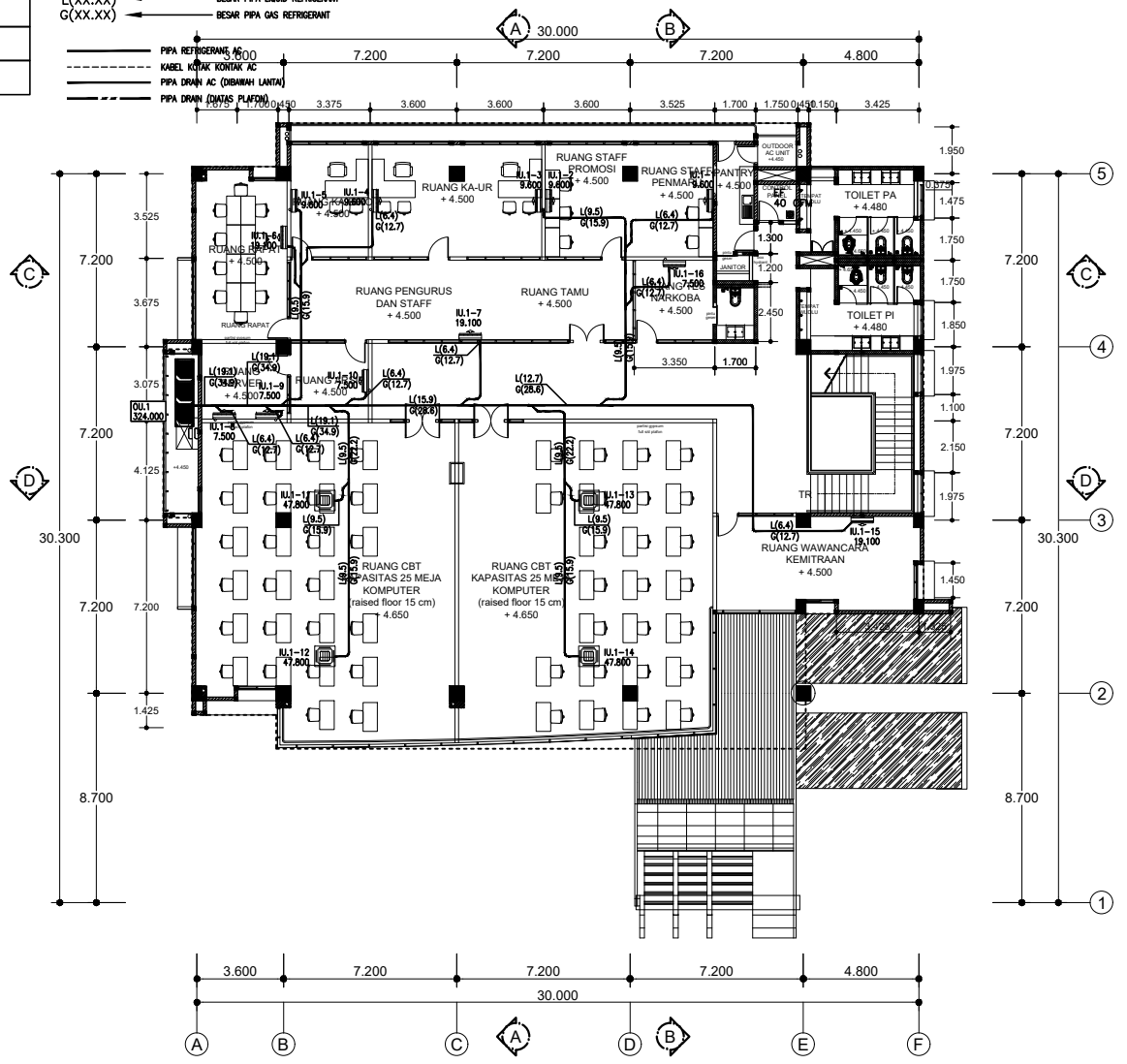
NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR	1	

SIMBOL & KETERANGAN	
	IU : INDOOR UNIT/FAN COIL UNIT TYPE : SPLIT WALL MOUNTED
	IU : INDOOR UNIT/FAN COIL UNIT TYPE : CEILING CASSETTE
	OU : COMPRESSOR UNIT/OUTDOOR UNIT
	BRANCH/REFNET/PERCABANGAN PIPA REFRIGERANT AC

IU.LG.X–X — NO. AC
(XX.XXX) — KAPASITAS PENDINGINAN
L(XX.XX) — BESAR PIPA LIQUID REFRIGERANT
G(XX.XX) — BESAR PIPA GAS REFRIGERANT

PIPA REFRIGERANT AC
KABEL KOTAK KONTAK AC
PIPA DRAIN AC (DIBAWAH LANTAI)
PIPA DRAIN (DIATAS PLAFON)



RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI 02

SKALA 1 : 200

NAMA BANGUNAN

GEDUNG ADMISI UMY

UNIVERSITAS MUHAMMADIYAH YOGYAKARTA

MENGETAHUI/ MENYETUJUI

Dr. Ir.GUNAWAN BUDIYANTO, M.P.
REKTOR

PENANGGUNG JAWAB

SRI ATMAJA P. ROSYIDI, MSc.Eng., Ph.D.
WAKIL REKTOR III

TIM PERENCANA UMY

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MEKANIKAL ELEKTRIKAL	Ir. AGUS JAMAL, M.Eng	
DIGAMBAR		

JUDUL GAMBAR	SKALA
RENCANA REFRIGERANT AC & VENTILASI MEKANIK LANTAI 02	1 : 200

CATATAN/ KETERANGAN

REVISI

NO.	URAIAN	TANGGAL	PARAF

KODE GAMBAR	NO. GAMBAR	JML. LEMBAR
UMY_ADM_STDR AC-REF	4	

Spesifikasi Tipe Wall Mounted

Model			FXAQ20PVE	FXAQ25PVE	FXAQ32PVE
Cooling Capacity		kW	2.2	2.8	3.6
		Btu/h	7,500	9,600	12,300
Power Consumption	Cooling	kW	0.019	0.028	0.030
Sound Level (H/L)		dB(A)	35/31	36/31	38/31
Dimensions (H x W x D)		mm	290 x 795 x 238	290 x 795 x 238	290 x 795 x 238
Machine Weight		kg	11		

Model			FXAQ40PVE	FXAQ50PVE	FXAQ63PVE
Cooling Capacity		kW	4.5	5.6	7.1
		Btu/h	15,400	19,100	24,200
Power Consumption	Cooling	kW	0.020	0.033	0.050
Sound Level (H/L)		dB(A)	39/34	42/37	47/41
Dimensions (H x W x D)		mm	290 x 1,050 x 238	290 x 1,050 x 238	290 x 1,050 x 238
Machine Weight		kg	14		

Spesifikasi Tipe Ceiling Mounted Cassette (Round Flow)

Model			FXFQ25LUV1	FXFQ32LUV1	FXFQ40LUV1	FXFQ50LUV1
Cooling Capacity		kW	2.8	3.6	4.5	5.6
		Btu/h	9,600	12,300	15,400	19,100
Power Consumption	Cooling	kW	0.033	0.033	0.047	0.052
Sound Level (HH/H/L)		dB(A)	30/28.5/27	30/28.5/27	31/29/27	32/29.5/27
Dimensions (H x W x D)		mm	246 x 840 x 840			
Machine Weight		kg	19,5			

Model			FXFQ63LUV1	FXFQ80LUV1	FXFQ100LUV1	FXFQ125LUV1
Cooling Capacity		kW	7.1	9.0	11.2	14.0
		Btu/h	24,200	30,700	38,200	47,800
Power Consumption	Cooling	kW	0.066	0.093	0.187	0.209
Sound Level (HH/H/L)		dB(A)	34/31/28	36/33.5/31	43/37.5/32	44/39/34
Dimensions (H x W x D)		mm	246 x 840 x 840		288 x 840 x 840	
Machine Weight		kg	22		25	

Wall mounted non inverter daikin

SPESIFIKASI :

Model Name	Indoor Unit		FTNE15MV14	FTNE20MV14	FTNE25MV14	FTNE35MV14	FTNE50MV14	FTNE60MV14
	Outdoor Unit		RNE15MV14	RNE20MV14	RNE25MV14	RNE35MV14	RNE50MV14	RNE60MV14
Capacity	Rated	kW	1.46	2.09	2.62	3.35	5.20	6.40
		Btu/h	5,000	7,000	9,000	11,450	17,750	21,800
Power Supply			1 Phase, 220 V, 50 Hz					
Running Current	Rated	A	1.9	3.0	3.6	5.0	8.0	9.3
Power Comsumtion	Rated	W	390	633	819	1,063	1,650	2,032
COP	Rated	W / W	3.75	3.30	3.20	3.15		
Indoor Unit			FTNE15MV14	FTNE20MV14	FTNE25MV14	FTNE35MV14	FTNE50MV14	FTNE60MV14
Airflow Rate (H)		m3/min (cfm)	7.2 (254)	8.1 (286)			18.5 (653)	
Fan Speed			5 steps and automatic					
Sound Pressure Levels (H/L)		dB (A)	35/28	37/28		39/33	48/35	48/36
Dimensions (H x W x D)		mm	273 x 784 x 195				290 x 1,050 x 238	
Machine Weight		kg	8				12	
Outdoor Unit			RNE15MV14	RNE20MV14	RNE25MV14	RNE35MV14	RNE50MV14	RNE60MV14
Casing Colour			Ivory White					
Compressor		Type	Hermetically Sealed Rotary Type					
		Motor Output (W)	350	593	760	900	1,300	1,959
Refrigerant		Type	R-410A					
		Charge (kg)	0.42	0.65	0.67	0.88	0.90	
Sound Pressure Levels		dB (A)	49	50		51	54	53
Dimensions (H x W x D)		mm	418 x 695 x 244			550 x 658 x 275	595 x 845 x 300	
Machine Weight		kg	21	24	25	32	36	40
Operation Range		*CDB	19.4 to 46					

Piping Conection	Liquid	mm	diametre 6.4		
	Gas		diametre 9.5	diametre 12.6	diametre 15.8
	Drain		diametre 18.0		
Max. Piping Lenght		m	15	20	
Max. Height Difference			12	15	

Measurement conditions :

1. Cooling capacity is based on : indoor temp. 27 degree CDB, 19 degree CWB; outdoor temp, 35 degree CDB; piping length 5 m.

2. Sound pressure levels are based on the temperature conditions 1 above. These are anechoic convertion values. These values are normally somewhat higher during actual operation as a result of ambient conditions.

Ceiling mounted cassette Non-Inverter

		13		18	21	26
Model Name	Indoor Unit	FCNQ13MV14		FCNQ18MV14	FCNQ21MV14	FCNQ26MV14
	Outdoor Unit	V14	RNQ13MV14	RNQ18MV14	RNQ21MV14	RNQ26MV14
		Y14	-	-	-	RNQ26MY14
Cooling Capacity*1,2		kW	3,8	5,3	6,2	7,6
		Btu/h	13.000	18.000	21.000	26.000
Power Consumption		Cooling*1 kW	1,24	1,89	2,21	2,53
COP		W/W	3,07	2,80	2,80	3,00
Indoor Unit	Sound Level (H/L)*3	dB(A)	31/28		35/28	
	Dimensions (H x W x D)	Unit mm	256 x 840 x 840			

		13			18	21	26
Model Name	Indoor Unit	FCNQ13MV14			FCNQ18MV14	FCNQ21MV14	FCNQ26MV14
	Outdoor Unit	V14		RNQ13MV14	RNQ18MV14	RNQ21MV14	RNQ26MV14
		Y14		-	-	-	RNQ26MY14
Outdoor Unit	Sound Level*3	Cooling	dB(A)	49	51	52	54
	Dimensions (H x W x D)	mm		550 x 765 x 285	595 x 845 x 300		735 x 825 x 300
Piping Connections	Liquid (flare)	mm		Ø 6,4			Ø 9,5
	Gas (flare)	mm		Ø 12,7		Ø15,9	
	Drain	Indoor Unit	mm	VP25(I.DØ25xO.DØ32)			
		Outdoor Unit	mm	Ø18.0 (Hole)			
Max. Interunit piping lenght		m		30			30 (equivalent length 50)
Max. Installation level difference		m		10	15		20
Heat insulation		Both liquid and gas piping					

				30	36	42	48
Model Name	Indoor Unit			FCNQ30MV14	FCNQ36MV14	FCNQ42MV14	FCNQ48MV14
	Outdoor Unit		V14	-		-	-
			Y14	RNQ30MY14	RNQ36MY14	RNQ42MY14	RNQ48MY14
Cooling Capacity*1,2			kW	8,8	10,6	12,5	14,1
			Btu/h	30.000	36.000	42.600	48.000
Power Consumption		Cooling*1	kW	2,73	3,31	4,15	5,04
COP			W/W	3,22	3,20	3,01	2,80
Indoor Unit	Sound Level (H/L)*3		dB(A)	43/32		44/34	44/36
	Dimensions (H x W x D)	Unit	mm	298 x 840 x 840			
Outdoor Unit	Sound Level*3	Cooling	dB(A)	55	54	56	58
	Dimensions (H x W x D)		mm	990 x 940 x 320	1,345 x 900 x 320		
Piping Connections	Liquid (flare)		mm	Ø 9,5			
	Gas (flare)		mm	Ø15,9			
	Drain	Indoor Unit	mm	VP25(I.DØ25xO.DØ32)			
		Outdoor Unit	mm	Ø26.0 (Hole)			
Max. Interunit piping lenght			m	50 (equivalent length 70)			

			30	36	42	48
Model Name	Indoor Unit		FCNQ30MV14	FCNQ36MV14	FCNQ42MV14	FCNQ48MV14
	Outdoor Unit	V14	-		-	-
		Y14	RNQ30MY14	RNQ36MY14	RNQ42MY14	RNQ48MY14
Max. Installation level difference		m	30			
Heat insulation			Both liquid and gas piping			

- Note:
  - *1Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
  - *2Capacities are net, including a deduction for cooling for indoor fan motor heat.
  - *3Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.