CAC Specification - Indoor Units

MSP Duct

- Narrow Width
- Strong and Large Coverage Area
- Silent Operation with the Static Pressure Control
- Easy to Maintain

Smart Inverter

Model Name	Indoor Unit			AC052FBMDEH	AC071FBMDEH	AC090FBMDEH	AC100FBMDEH	AC100FBMDEH
	Outdoor Unit			AC052FCADEH	AC071FCADEH	AC090FCADEH	AC100FCADEH	AC100FCADGH
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Capacity (Nominal)	Cooling (Min. / Std. / Max.)		kW	1.00/5.00/6.00	2.20/7.10/8.00	2.80/9.00/11.50	3.20/10.00/12.00	3.20/10.00/12.00
			Btu/h	3,400/17,100/20,500	7,500/24,200/27,300	9,600/30,700/39,200	10,900/34,100/40,900	10,900/34,100/40,900
	Heating (Min. / Std. / Max.)		kW	0.75/6.00/7.20	1.90/8.00/9.00	3.00/10.00/15.50	3.00/11.20/15.50	3.00/11.20/15.50
			Btu/h	2,600/20,500/24,600	6,500/27,300/30,700	10,200/34,100/52,900	10,200/38,200/52,900	10,200/38,200/52,900
Power	Power Input (Nominal)	Cooling (Min. / Std. / Max.)	kW	0.43/1.56/2.20	0.35/2.21/4.00	0.82/2.80/3.80	0.88/3.22/5.00	0.88/3.22/5.00
		Heating (Min. / Std. / Max.)		0.33/1.66/2.30	0.35/2.22/4.00	0.80/2.77/5.20	0.71/3.10/5.50	0.71/3.10/5.50
	Current Input (Nominal)	Cooling (Min. / Std. / Max.)	A	2.20/7.50/10.00	2.00/10.50/21.00	4.00/13.00/16.50	4.00/15.20/21.00	2.20/5.40/7.30
		Heating (Min. / Std. / Max.)		1.90/7.80/10.00	2.00/10.50/21.00	3.30/12.50/24.00	3.30/13.50/24.00	1.70/5.00/6.00
	MCA		A	10.80 (MCA)	20.30 (MCA)	24.70 (MCA)	24.70 (MCA)	12.70 (MCA)
	MFA		A	13.13	25.00	30.00	30.00	15.00
Energy Efficiency	EER (Nominal Cooling)		-	3.21	3.21	3.21	3.11	3.11
	COP (Nominal Heating)		-	3.61	3.60	3.61	3.61	3.61
	Energy Grade		-	Energy Grade (C) 5.6(A++)	Energy Grade (C) 5.7(A++)	Energy Grade (C) 5.4(A)	Energy Grade (C) 5.2(A)	Energy Grade (C) 5.1(A)
			-	Energy Grade (H) 3.6(A)	Energy Grade (H) 3.8(A)	Energy Grade (H) 3.7(A)	Energy Grade (H) 3.5(A)	Energy Grade (H) 3.5(A)
Piping Connections	Liquid Pipe		Φ, mm	6.35	6.35	9.52	9.52	9.52
			Φ, inch	1/4"	1/4"	3/8"	3/8"	3/8"
	Gas Pipe		Φ, mm	12.70	15.88	15.88	15.88	15.88
			Φ, inch	1/2"	5/8"	5/8"	5/8"	5/8"
	Installation Limitation	Max. Length (Outdoor to indoor)	m	30(35)	50(55)	50(55)	50(55)	50(55)
		Max. Height (Between ID/OD)	m	20(20)	30(30)	30(30)	30(30)	30(30)
Field Wiring	Power Source Wire		-	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0	1.5 ~ 2.5
	Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.0	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
	Control Method		-	-	-	-	-	-
	Factory Charging		kg	1.40	1.80	3.00	3.00	3.10
INDOOR UNIT								
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
	Type		-	Sirocco Fan	Turbo Fan/BLDC	Sirocco Fan/BLDC	Sirocco Fan/BLDC	Sirocco Fan/BLDC
	Motor	Output	W	-	-	-	-	-
	Number of Unit		EA	1.00	1.00	1.00	1.00	1.00
	Air Flow Rate	High / Mid / Low	CMM	20.00/18.00/15.50	22.00/20.00/17.50	33.00/31.00/28.00	33.00/31.00/28.00	33.00/31.00/28.00
			l/s	333.33/300.00/258.33	366.67/333.33/291.67	550.00/516.67/466.67	550.00/516.67/466.67	550.00/516.67/466.67
	External Static Pressure	Min / Std / Max	mmAq	0.00/2.50/8.00	0.00/4.00/10.00	0.00/4.00/10.00	0.00/4.00/10.00	0.00/4.00/10.00
			Pa	0.00/24.52/78.45	0.00/39.23/98.07	0.00/39.23/98.07	0.00/39.23/98.07	0.00/39.23/98.07
Drain	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure	High / Mid / Low	dB(A)	37.00/35.5/33.0	39.00/37.0/35.0	39.00/37.0/35.0	39.00/37.0/35.0	39.00/37.0/35.0
External Dimension	Net Weight		kg	29.50	33.00	37.00	37.00	37.00
	Shipping Weight		kg	34.50	40.00	43.00	43.00	43.00
	Net Dimensions (WxHxD)		mm	900 x 260 x 480	1150 x 260 x 480	1150 x 320 x 480	1150 x 320 x 480	1150 x 320 x 480
	Shipping Dimensions (WxHxD)		mm	1170 x 340 x 595	1420 x 340 x 595	1420 x 340 x 595	1420 x 340 x 595	1420 x 340 x 595
Panel Size	Panel model		-	-	-	-	-	-
	Panel Net Weight		kg	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-
Additional Accessories	Drain pump	Drain pump	-	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1
		Max. lifting Height / Displacement	mm / liter/h	-	-	-	-	-
	Air Filter		-	-	-	-	-	-
OUTDOOR UNIT								
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	3,4,380~415,50
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Model		-	UG4T150FUDJQ	UG4T200FUAE4SG	UG8T300FUBJUSG	UG8T300FUBJUSG	UG5T450FUFJXSG
	Output		kW	1.37	1.79	2.82	2.82	4.12
	Oil	Type	-	POE	POE	POE	POE	POE
		Initial Charge	cc	650.00	850.00	1200.00	1200.00	1700.00
Fan	Air Flow Rate	Cooling	CMM	33.00	52.00	63.50	63.50	63.50
			l/s	550.00	866.67	1,058.33	1,058.33	1,058.33
Sound	Sound Pressure	Cooling / Heating	dB(A)	49.0 / 49.0	49.0 / 51.0	51.0 / 52.0	52.0 / 53.0	52.0 / 53.0
External Dimension	Net Weight		kg	38.50	55.00	72.00	72.00	81.00
	Shipping Weight		kg	42.50	59.00	77.00	77.00	86.00
	Net Dimensions (WxHxD)		mm	790 x 848 x 285	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	926 x 855 x 382	1023 x 891 x 413	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426
Operating Temp. Range	Cooling		°C	-15~46	-15~50	-15~50	-15~50	-15~50
	Heating		°C	-15~24	-20~24	-20~24	-20~24	-20~24

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Optional Accessories

Individual Controllers

MWR-WE10 MWR-WH0* MWR-SH00 MR-DH00 MRK-A00 MRW-10A

Drain Pump

MDP-M075SGU1
MDP-M075SGU2
MDP-M075SGU3

Standard Accessories

Individual Controllers

CAC Specification - Indoor Units

MSP Duct

- Narrow Width
- Strong and Large Coverage Area
- Silent Operation with the Static Pressure Control
- Easy to Maintain

Smart Inverter

Model Name	Indoor Unit			NS125SDXEA	NS125SDXEA	NS140SDXEA	NS140SDXEA	AC052FBMSEH
	Outdoor Unit			RC125DHXEB	RC125DHXGA	RC140DHXEB	RC140DHXGA	AC052FCASEH
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Capacity (Nominal)	Cooling (Min. / Std. / Max.)		kW	3.45/12.50/14.00	3.45/12.50/14.00	3.45/14.00/15.40	3.45/14.00/15.40	1.10/5.00/5.90
			Btu/h	11,800/42,700/47,800	11,800/42,700/47,800	11,800/47,800/52,500	11,800/47,800/52,500	3,800/17,100/20,100
	Heating (Min. / Std. / Max.)		kW	4.10/14.00/18.00	4.10/14.00/18.00	3.75/16.00/18.50	3.75/16.00/18.50	1.00/5.50/6.70
			Btu/h	14,000/47,800/61,400	14,000/47,800/61,400	12,800/54,600/63,100	12,800/54,600/63,100	3,400/18,800/22,900
Power	Power Input (Nominal)	Cooling (Min. / Std. / Max.)	kW	1.25/3.89/5.30	1.25/3.89/5.30	1.25/4.65/5.70	1.25/4.65/5.70	0.39/1.84/2.05
		Heating (Min. / Std. / Max.)		0.98/3.88/5.60	0.98/3.88/5.60	1.00/4.43/5.80	1.00/4.43/5.80	0.29/1.66/2.50
	Current Input (Nominal)	Cooling (Min. / Std. / Max.)	A	5.70/18.00/24.30	2.00/6.10/8.20	5.70/21.30/26.10	2.00/7.20/8.80	2.10/8.50/9.50
		Heating (Min. / Std. / Max.)		4.50/18.00/25.60	1.50/6.10/8.60	4.50/20.30/26.50	1.60/6.90/9.00	1.80/7.30/9.30
	MCA		A	26.00 (MCA)	14.00 (MCA)	26.00 (MCA)	14.00 (MCA)	12.15 (MCA)
	MFA		A	30.00	15.40	30.00	15.40	13.40
Energy Efficiency	EER (Nominal Cooling)		-	3.21	3.21	3.01	3.01	2.72
	COP (Nominal Heating)		-	3.61	3.61	3.61	3.61	3.31
	Energy Grade		-	Energy Grade (C) A	Energy Grade (C) A	Energy Grade (C) B	Energy Grade (C) B	Energy Grade (C) 4.1(C)
			-	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) 3.4(A)
Piping Connections	Liquid Pipe		Φ, mm	9.52	9.52	9.52	9.52	6.35
			Φ, inch	3/8"	3/8"	3/8"	3/8"	1/4"
	Gas Pipe		Φ, mm	15.88	15.88	19.05	19.05	12.70
			Φ, inch	5/8"	5/8"	3/4"	3/4"	1/2"
	Installation Limitation	Max. Length (Outdoor to indoor)	m	75(75)	75(75)	75(75)	75(75)	30(35)
		Max. Height (Between ID/OD)	m	30(30)	30(30)	30(30)	30(30)	20(20)
Field Wiring	Power Source Wire		-	2.5 ~ 4.0	1.5 ~ 2.5	2.5 ~ 4.0	1.5 ~ 2.5	2.5 ~ 4.0
	Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
	Control Method		-	-	-	-	-	-
	Factory Charging		kg	2.90	2.90	3.40	3.40	1.30
INDOOR UNIT								
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
	Type		-	Turbo Fan/BLDC	Turbo Fan/BLDC	Turbo Fan/BLDC	Turbo Fan/BLDC	Sirocco Fan
	Motor	Output	W	-	-	-	-	-
	Number of Unit		EA	1.00	1.00	1.00	1.00	1.00
	Air Flow Rate	High / Mid / Low	CMM	42.00/38.50/35.00	42.00/38.50/35.00	43.00/38.00/35.00	43.00/39.00/35.00	14.50/13.00/11.50
			l/s	700.00/641.67/583.33	700.00/641.67/583.33	716.67/650.00/583.33	716.67/650.00/583.33	241.67/216.67/191.67
	External Static Pressure	Min / Std / Max	mmAq	0.00/6.00/14.00	0.00/6.00/14.00	0.00/6.00/14.00	0.00/6.00/14.00	0.00/3.00/6.00
			Pa	0.00/58.84/137.29	0.00/58.84/137.29	0.00/58.84/137.29	0.00/58.84/137.29	0.00/29.42/58.84
Drain	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure	High / Mid / Low	dB(A)	43.00/40.5/38.0	43.0/40.5/38.0	43.00/40.5/38.0	43.00/40.5/38.0	37.00/35.5/33.0
External Dimension	Net Weight		kg	55.00	55.00	55.00	55.00	29.00
	Shipping Weight		kg	60.00	60.00	60.00	60.00	34.00
	Net Dimensions (WxHxD)		mm	1200 x 360 x 650	1200 x 360 x 650	1200 x 360 x 650	1200 x 360 x 650	900 x 260 x 480
	Shipping Dimensions (WxHxD)		mm	1447 x 425 x 769	1447 x 425 x 769	1447 x 425 x 769	1447 x 425 x 769	1146 x 363 x 584
Panel Size	Panel model		-	-	-	-	-	-
	Panel Net Weight		kg	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-
Additional Accessories	Drain pump	Drain pump	-	MDP-M075SGU2	MDP-M075SGU2	MDP-M075SGU2	MDP-M075SGU2	MDP-M075SGU1
		Max. lifting Height / Displacement	mm / liter/h	-	-	-	-	-
	Air Filter		-	-	-	-	-	-
OUTDOOR UNIT								
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Model		-	UG5T450FUEJXSG	UG5T450FUFJXSG	UG5T450FUEJXSG	UG5T450FUFJXSG	UG4T150FUDJQ
	Output		kW	4.12	4.12	4.12	4.12	1.37
	Oil	Type	-	POE	POE	POE	POE	POE
		Initial Charge	cc	1700.00	1700.00	1700.00	1700.00	650.00
Fan	Air Flow Rate	Cooling	CMM	90.50	90.50	90.50	90.50	37.00
			l/s	1,508.33	1,508.33	1,508.33	1,508.33	616.67
Sound	Sound Pressure	Cooling / Heating	dB(A)	51.0 / 52.0	51.0 / 52.0	52.0 / 54.0	52.0 / 54.0	49.0 / 49.0
External Dimension	Net Weight		kg	88.00	91.00	88.00	91.00	36.00
	Shipping Weight		kg	98.00	101.00	98.00	101.00	40.00
	Net Dimensions (WxHxD)		mm	940 x 1210 x 330	940 x 1210 x 330	940 x 1210 x 330	940 x 1210 x 330	790 x 548 x 285
	Shipping Dimensions (WxHxD)		mm	995 x 1338 x 426	995 x 1338 x 426	995 x 1338 x 426	995 x 1338 x 426	926 x 655 x 382
Operating Temp. Range	Cooling		°C	-15~50	-15~50	-15~50	-15~50	-5~43
	Heating		°C	-20~24	-20~24	-20~24	-20~24	-15~24

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Optional Accessories

Individual Controllers

MWR-WE10

MWR-WH0*

MWR-SH00

MR-DH00

MRK-A00

MRW-10A

Drain Pump

MDP-M075SGU1
MDP-M075SGU2
MDP-M075SGU3

Standard Accessories

Individual Controllers

CAC Specification - Indoor Units

MSP Duct

- Narrow Width
- Strong and Large Coverage Area
- Silent Operation with the Static Pressure Control
- Easy to Maintain

R - Inverter

Model Name	Indoor Unit			AC071FBMSEH	AC090FBMSEH	AC100FBMSEH
	Outdoor Unit			AC071FCASEH	AC090FCASEH	AC100FCASEH
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Capacity (Nominal)	Cooling (Min. / Std. / Max.)		kW	1.60/7.00/8.00	2.80/9.00/11.00	2.80/10.00/11.50
			Btu/h	5,500/23,900/27,300	9,600/30,700/34,100	9,600/34,100/39,200
	Heating (Min. / Std. / Max.)		kW	1.40/7.70/8.20	3.00/9.50/13.00	3.00/11.20/15.50
			Btu/h	4,800/26,300/28,000	10,200/32,400/44,400	10,200/38,200/52,900
Power	Power Input (Nominal)	Cooling (Min. / Std. / Max.)	kW	0.55/2.79/2.92	0.82/3.20/4.50	0.82/3.99/4.50
		Heating (Min. / Std. / Max.)		0.50/2.40/2.85	0.80/2.87/5.00	0.80/3.72/5.50
	Current Input (Nominal)	Cooling (Min. / Std. / Max.)	A	2.70/14.50/14.80	3.80/14.00/19.50	3.80/16.00/19.50
		Heating (Min. / Std. / Max.)		2.50/13.50/13.80	2.80/13.00/24.00	2.80/15.00/24.00
	MCA		A	21.65 (MCA)	23.50 (MCA)	25.00 (MCA)
	MFA		A	25.00	27.50	30.00
Energy Efficiency	EER (Nominal Cooling)		-	2.51	2.81	2.51
	COP (Nominal Heating)		-	3.21	3.31	3.01
	Energy Grade		-	Energy Grade (C) 4.1(C)	Energy Grade (C) 4.3(C)	Energy Grade (C) 4.3(C)
			-	Energy Grade (H) 3.4(A)	Energy Grade (H) 3.4(A)	Energy Grade (H) 3.4(A)
Piping Connections	Liquid Pipe		Φ, mm	6.35	9.52	9.52
			Φ, inch	1/4"	3/8"	3/8"
	Gas Pipe		Φ, mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
	Installation Limitation	Max. Length (Outdoor to indoor)	m	30(35)	50(55)	50(55)
		Max. Height (Between ID/OD)	m	20(20)	30(30)	30(30)
Field Wiring	Power Source Wire		-	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0
	Transmission Cable		-	0.75 ~ 1.0	0.75 ~ 1.25	0.75 ~ 1.25
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	-	-	-
	Factory Charging		kg	1.80	3.00	3.00
INDOOR UNIT						
Power Supply			Φ, #, V, Hz	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50
	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output	W	-	-	-
	Number of Unit		EA	1.00	1.00	1.00
	Air Flow Rate	High / Mid / Low	CMM	21.50/19.70/18.00	24.00/22.00/20.00	24.00/22.00/20.00
			l/s	358.33/328.33/300.00	400.00/366.67/333.33	400.00/366.67/333.33
	External Static Pressure	Min / Std / Max	mmAq	0.00/3.00/6.00	0.00/4.00/8.00	0.00/4.00/8.00
			Pa	0.00/29.42/58.84	0.00/39.23/78.45	0.00/39.23/78.45
Drain	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure	High / Mid / Low	dB(A)	38.00/36.0/34.0	39.00/37.0/35.0	40.00/37.0/35.0
External Dimension	Net Weight		kg	29.00	34.00	55.00
	Shipping Weight		kg	34.00	40.00	60.00
	Net Dimensions (WxHxD)		mm	900 x 280 x 480	1150 x 280 x 480	1150 x 280 x 480
	Shipping Dimensions (WxHxD)		mm	1146 x 353 x 584	1405 x 354 x 593	1405 x 354 x 593
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1
		Max. lifting Height / Displacement	mm / liter/h	-	-	-
	Air Filter		-	-	-	-
OUTDOOR UNIT						
Power Supply			Φ, #, V, Hz	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Model		-	UG4T200FUAE4SG	UG8T300FUBJUSG	UG8T300FUBJUSG
	Output		kW	1.79	2.82	2.82
	Oil	Type	-	POE	POE	POE
		Initial Charge	cc	650.00	1200.00	1200.00
Fan	Air Flow Rate	Cooling	CMM	52.00	68.00	68.00
			l/s	866.67	1,133.33	1,133.33
Sound	Sound Pressure	Cooling / Heating	dB(A)	52.0 / 52.0	52.0 / 53.0	52.0 / 53.0
External Dimension	Net Weight		kg	47.00	72.00	72.00
	Shipping Weight		kg	52.00	77.00	77.00
	Net Dimensions (WxHxD)		mm	880 x 638 x 310	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	1024 x 750 x 414	995 x 1096 x 426	995 x 1096 x 426
Operating Temp. Range	Cooling		°C	-5~43	-15~50	-15~50
	Heating		°C	-20~24	-20~24	-20~24

* Product Specifications in the Publication can be changed without a prior notice. Because there is always an ongoing improvement on our product.

Optional Accessories

Individual Controllers

MWR-WE10 | MWR-WH0* | MWR-SH00 | MR-DH00 | MRK-A00 | MRW-10A

Drain Pump

MDP-M075SGU1
MDP-M075SGU2
MDP-M075SGU3

Standard Accessories

Individual Controllers