

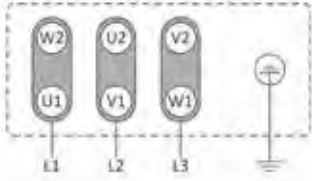
Wiring diagrams



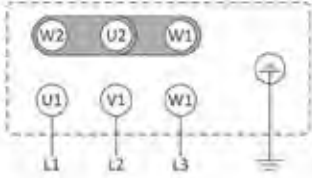
Product Series	Fan type	Associated Wiring Diagrams			
AX	Adjustable Pitch Inline Axial Fans	FDWD-01	FDWD-03	FDWD-04	
DP / SP	Adjustable Pitch Wall Axial Fans	FDWD-01	FDWD-03	FDWD-04	
DQ / DS / VD	Adjustable Pitch Roof Axial Fans	FDWD-01	FDWD-03	FDWD-04	
LD / LE / LS / LR	Heavy Gauge Adjustable Pitch Roof Axial Fans	FDWD-01	FDWD-03	FDWD-04	
		FDWD-01	FDWD-03	FDWD-04	FDWD-08
BKMV / KMV	Centrifugal Kitchen Metal Exhaust Fan	FDWD-09	FDWD-10	FDWD-11	FDWD-20
		FDWD-35	FDWD-13A	FDWD-25A	FDWD-29A
		FDWD-34A			
ICQ / IMQ / TCD / TCV / ASC	Centrifugal Fans	FDWD-02	FDWD-08	FDWD-09	FDWD-10
		FDWD-11	FDWD-13	FDWD-20	FDWD-25
		FDWD-26	FDWD-29	FDWD-34	FDWD-35
		FDWD-03A	FDWD-04A		
CVB / CVS	Fixed Pitch Roof Axial Fans	FDWD-01	FDWD-08	FDWD-43	
WCE / WCS	Centrifugal Wall Fans	FDWD-02	FDWD-08	FDWD-09	FDWD-11
		FDWD-20	FDWD-35		
		FDWD-08	FDWD-09	FDWD-10	FDWD-11
RCV / FCD / BRCD / TCV	Centrifugal Roof Fans	FDWD-22	FDWD-35	FDWD-43	FDWD-13A
		FDWD-25A	FDWD-26A	FDWD-29A	FDWD-34A
CS	CS Roof Centrifugal Supply Fans	FDWD-08	FDWD-09	FDWD-10	FDWD-11
		FDWD-13	FDWD-20	FDWD-22	FDWD-25
		FDWD-26	FDWD-29	FDWD-34	
WRE / WQE / WRS / WQS	Small Wall Fans	FDWD-08	FDWD-19		
FEF	Fixed Pitch Wall/Ring Axial Fan	FDWD-08	FDWD-09	FDWD-10	FDWD-19
JVC25 / JVC50 / JCC25 / JAU35 / JAU31 / JAU40	Jet Fans	FDWD-03	FDWD-08	FDWD-28	FDWD-25B
		FDWD-29B			
FAD / FAL / FAW	Flameproof / Hazardous Motor Fans	FDWD-30			

FDWD-01

Δ Delta Connection

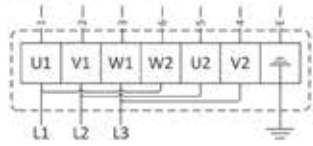


Y Star Connection

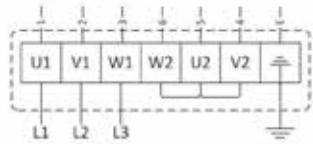


FDWD-02

Δ Delta Connection

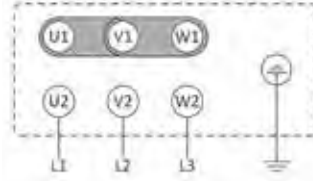


Y Star Connection

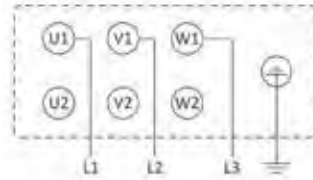


FDWD-03

High Speed

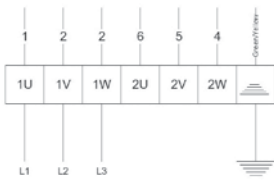


Low Speed

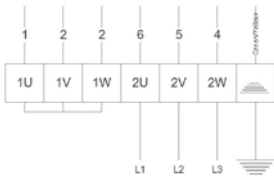


FDWD-03A

Low Speed - Red leads to lines, Black leads open

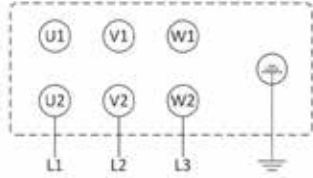


High Speed - Black leads to lines, Red leads Bridged

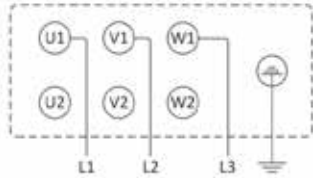


FDWD-04

High Speed

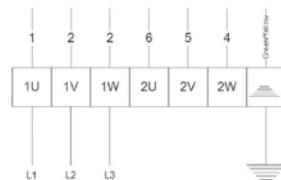


Low Speed

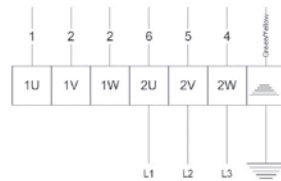


FDWD-04A

Low Speed - Red leads to lines, Black leads open

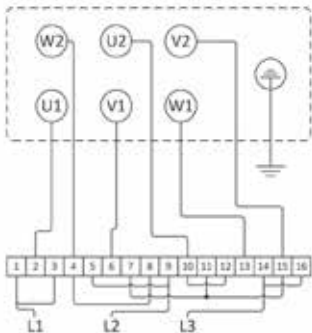


High Speed - Black leads to lines, Red leads open



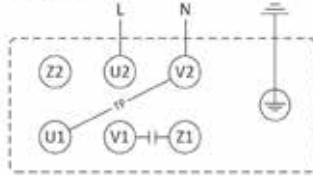
FDWD-05

Y/Δ Star/Delta Connection



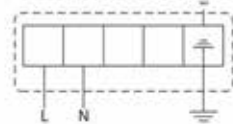
FDWD-06

Clockwise

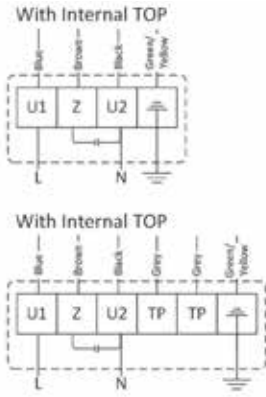


FDWD-07

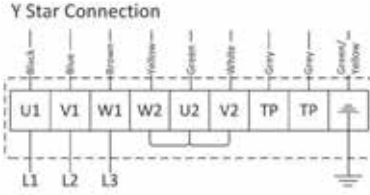
Connection



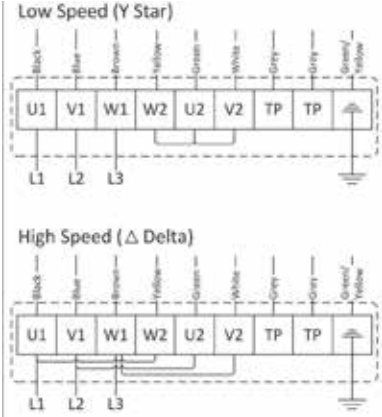
FDWD-08



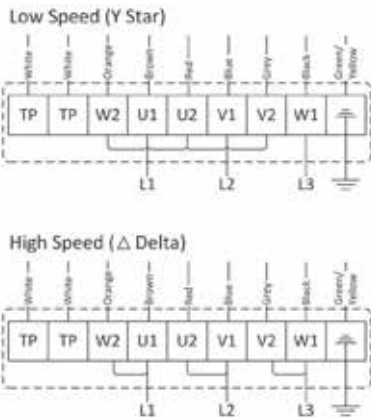
FDWD-09



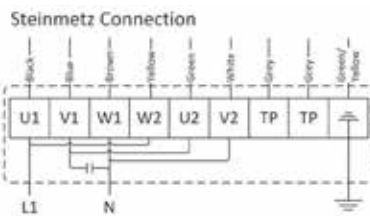
FDWD-10



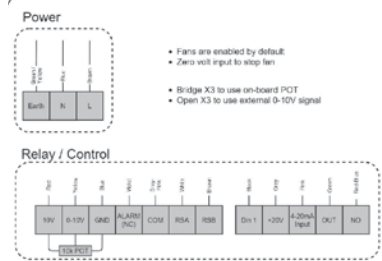
FDWD-11



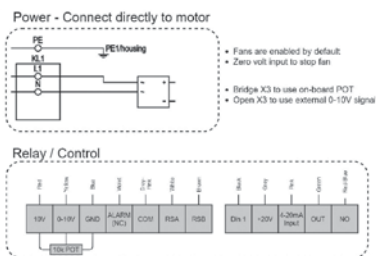
FDWD-12



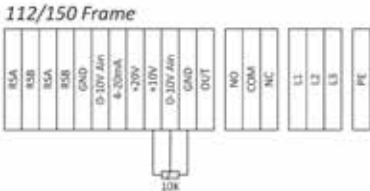
FDWD-13



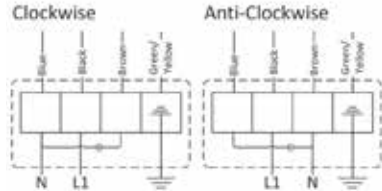
FDWD-13A



FDWD-14



FDWD-15

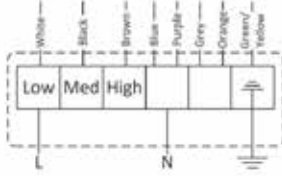


FDWD-16

4 Pole Speed

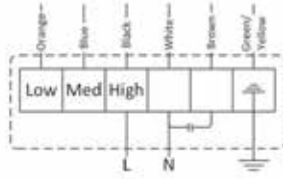


6 Pole Speed



FDWD-17

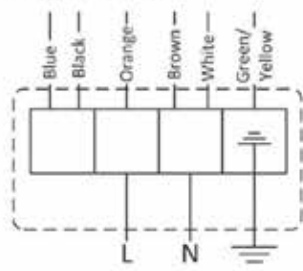
Connection



To change direction swap white and brown

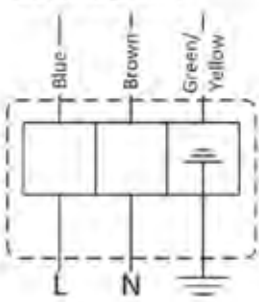
FDWD-18

Connection

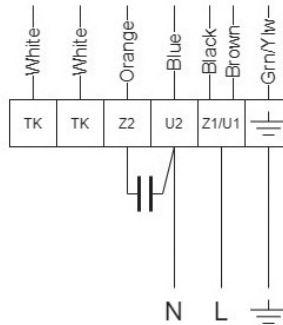


FDWD-19

Connection



FDWD-20

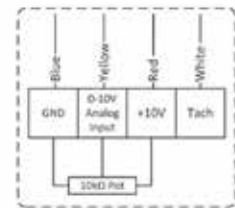


FDWD-21

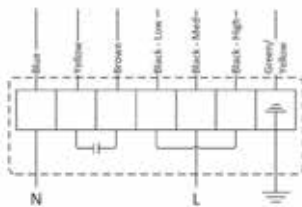
Power

This fan is prewired with a standard 3-Pin plug

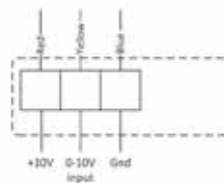
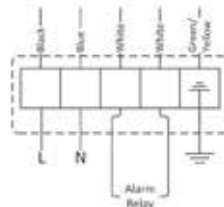
Control



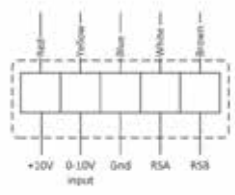
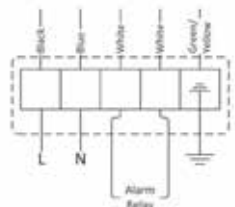
FDWD-22



FDWD-23



FDWD-24



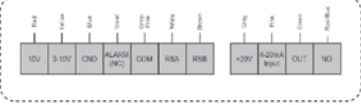
FDWD-25

Power



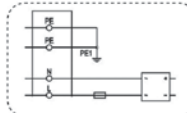
- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

Relay / Control



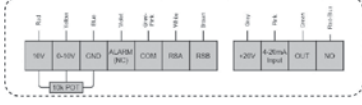
FDWD-25A

Power - Connect directly to motor



- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

Relay / Control



FDWD-25B

Power



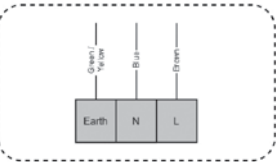
- Fans are enabled by default
- For start/stop switch the analog input
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

Relay / Control

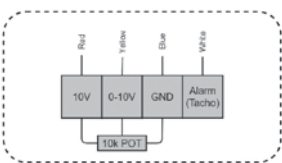


FDWD-26

Power



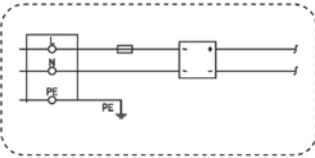
Control



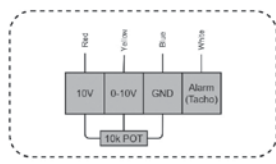
- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

FDWD-26A

Power - Connect directly to motor

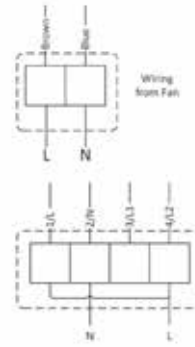


Control



- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

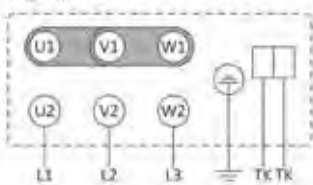
FDWD-27



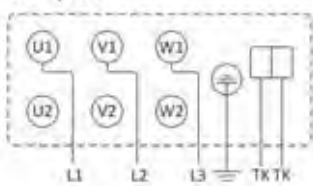
To reverse direction
230/300 Models
(Inside Fan)

FDWD-28

High Speed

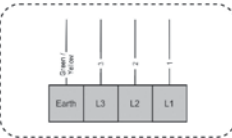


Low Speed

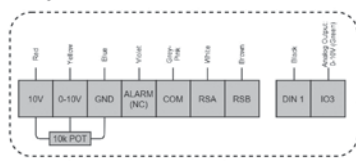


FDWD-29

Power



Relay / Control



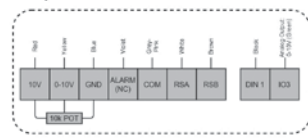
- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

FDWD-29A

Power - Connect directly to motor



Relay / Control



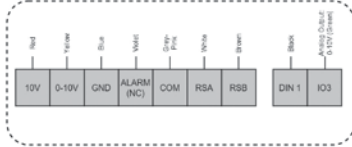
- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

FDWD-29B

Power



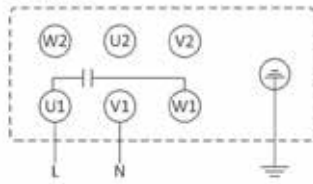
Relay / Control



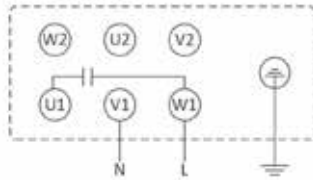
- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

FDWD-30

Clockwise

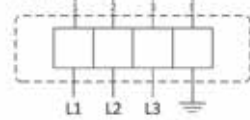


Anti-Clockwise



FDWD-31

Power

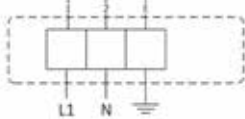


Controls



FDWD-32

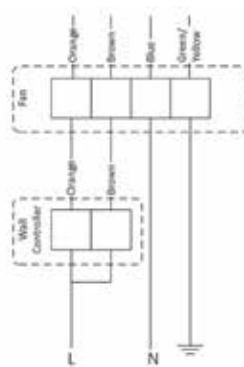
Power



Controls

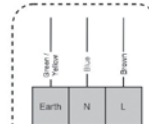


FDWD-33



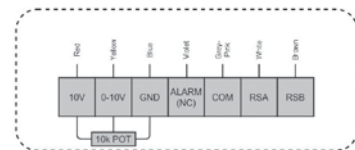
FDWD-34

Power



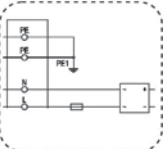
- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

Relay / Control



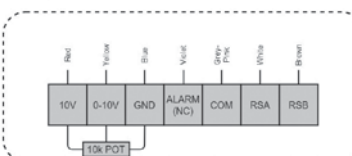
FDWD-34A

Power - Connect directly to motor

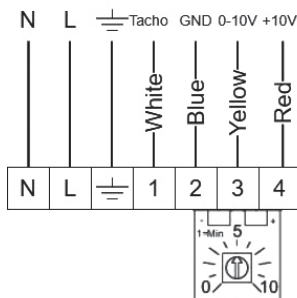


- Fans are enabled by default
- Zero volt input to stop fan
- Bridge X3 to use on-board POT
- Open X3 to use external 0-10V signal

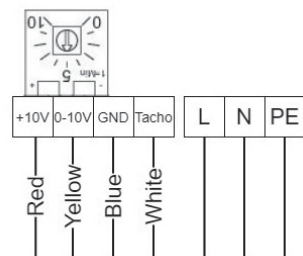
Relay / Control



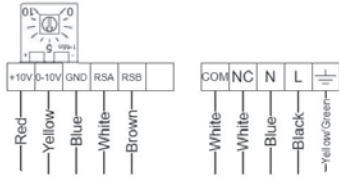
FDWD-47



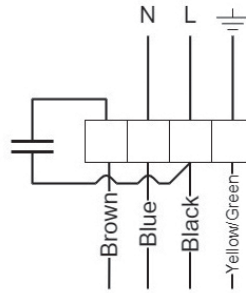
FDWD-48



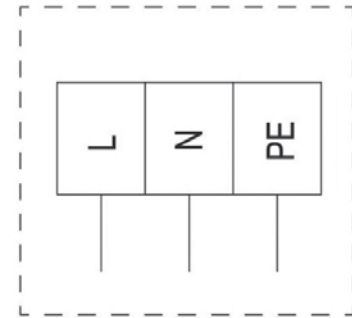
FDWD-49



FDWD-50

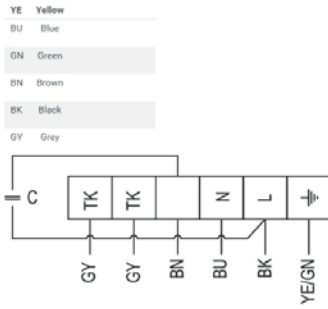


FDWD-51



Einfachbaugruppe	
L	Phaseleiter (230V AC, 50/60Hz)
N	Neutraleitender
PE	Protective conductor
Spannung	230V AC (50/60Hz)
Maximalleistung	1000W

FDWD-52





We are the safe choice.



PV00108_JUNE_2021_Version 1.0.1



Systemair New Zealand Ltd

Ph 0800 100 326

nzsales@systemair.com

www.systemair.nz