

# Selecting The Right Control For Your Needs

Years ago you could just call and say, "I need a control to run my fans", and the biggest question would be how many. Times have changed and our understanding of ventilation and the needs of livestock, plants, and the benefits of a comfortable environment for employees has progressed. Controls have evolved to meet these needs by monitoring and creating environments that resolve production and health issues caused by ambient temperature, humidity, and stagnant air. Now, when looking for an environmental control, the more information you can provide, the happier and healthier your livestock, plants, and employees will be.

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ENVIRONMENTAL CONTROLS

## First, what do you want to control?

- Exhaust Fans
- Recirculation Fans
- Higher Pressure Fogging
- Misters
- Soaker Systems
- Curtains
- Other Inlets
- Lights

## Second, what do you want to monitor?

- Temperature
- Humidity
- Static Pressure
- Airflow

## Third, what are some additional accessories you want?

- Removable Memory Device
- Communication Card
- Remote Access
- Rain Sensor
- Scales (Bin, Floor, etc)
- Compatibility with tracking or communication software
- Etc

## Fourth, what voltage is available at the facility?

- Single Phase
- Three Phase

**Fifth, if possible provide a detailed, to scale, layout of the facility showing the locations of the units you want to control and monitor.**

# Control Comparisons

## Customizable Smart Control

	Pulse
Total Stages	OPT>100
Variable Speed	OPT>100
Single Speed	OPT>100
Curtain Stages	OPT>50
Inlet Actuator Stages	OPT>50
Alarm Relay	X
0-10V Module	Opt>100
Removable Relay Cards	X
Removable Variable Cards	X
Remote Access	X

## Stackable Staged Controls

	JD412M	JD412M2	JD26 Plus	JD110WRS System	JD110WRS System with JDEX802
Total Stages	16	16	8	10	18
Variable Speed	4	4	2		
Single Speed	12	12	6	10	18
Curtain Stages	4	4	3	4	8
Inlet Actuator Stages	4	4	2	4	8
Alarm Relay	X	X	X		
Boost Capacity for Variable Speed	X	X	X		
0-10V Module	Opt(max 4)	Opt(max 4)	Opt(max 2)	1	3
Removable Relay Cards	X	X	X		
Removable Variable Cards	X	X	X		

## VFD Compatible Controls

	JDAV010M	JDAV010M-C	JDAV12T	JDAV12T-C
Manual	X	X		
Automatic			X	X
Total Stages	1	1	1	1
Variable Speed	X	X	X	X
0-10V Signal	X	X	X	X
With Cord		X		X
Volts	115-277	115	115-277	115

## Remote Power Supply

	JDR3-5 24 Volt DC	JDR3-5-480 24 Volt DC
Total Stages (Open/Close)	3	3
Volts	24	24
Amps		
Watt Capacity	500	500

*Works with any control that sends an open/close signal.*

## Curtain/Inlet Controls

	JDN2	JDN5-PLUS 24 Volt DC	JDN4M-5 24 Volt DC	JDR2-5 24 Volt DC	JDR2-5-480 24 Volt DC	JDR2-5A 24 Volt DC	JDSC Switching Center
Total Stages (Open/Close)	1	5	4	2	2	2	1
Volts	115/230	24	24	24	24	24	115/230
Amps	12						
Watt Capacity		500	500	500	500	500	
Programmable	X	X					
Manual			X	X	X	X	X

## Basic Thermostats

	JDS10	JDS10-C	JDDT1	JDDT2	VC012	VC012-C	VC115	VC115-C	VC109
Total Stages	1	1	1	2	1	1	1	1	2
Single Speed			X*	X	X*	X*	X*	X*	X
Variable Speed	X	X							
With Cord		X				X		X	
Volts	115/230	115	90-255	90-255	120-240	120	115/230/277	115	115/230/277
Amps	12	12	10	10/3	12/10	12	16/12/10	16	16/12/10
Cooling	X	X	X	X	X	X	X	X	X
Heating			X	X	X	X	X	X	X
Temp. Probe	X	X	X	X					
Temp. Coil					X	X	X	X	X

\* Can be used to control 2 speed motor if off is replaced with one speed.

## Manual Fan Speed Controls

	JDMV1	JDMV1-C	CN25	CN5	VFT130144	CN15
Total Stages	1	1	1	1	1	1
Variable Speed	X	X	X	X	X	X
With Cord		X				
Volts	115/230	115	120	120	120	120
Amps	12	12	2.5	5	10	15

## Backup Thermostat for J&D PM Motors

	VCB0010VS
Total Stages	1
Single Speed	X
Variable Speed	
0-10v Signal	X
4-20mA Signal	X
With Cord	
Volts	~
Amps	16
Cooling	X
Heating	
Temp. Probe	
Temp. Coil	X

~ Dry contact relay