

Project Name:

Contact Person:

Telephone:

## Prescriptive Checklist

### Prescriptive Economizers (§ 6.5.1)

- Systems employ airside economizers (§ 6.5.1.1).
- Economizer provides up to 100% design airflow in outdoor air (§ 6.5.1.1.1).
- Economizer is integrated with the mechanical cooling system (§ 6.5.1.1.2 and § 6.5.1.3).
- Economizer high limit shutoff complies with § 6.5.1.1.3.
- Economizer dampers meet or exceed leakage requirements (§ 6.5.1.1.4).
- System provides relief for up to 100% design airflow in outdoor air (§ 6.5.1.1.5).
- Economizer complies with the heating system impact requirements (§ 6.5.1.4).
- Systems employ waterside economizers.
- Economizer can provide 100% of the load at either the outdoor conditions of 50°F db/45°F wb or 45°F db/40°F wb where required for dehumidification purposes (§ 6.5.1.2.1).
- Precooling coils and heat exchangers have either a  $\leq 15$  ft of WC pressure drop or are bypassed when economizer is not in use (§ 6.5.1.2.2).
- Economizer is integrated with the mechanical cooling system (§ 6.5.1.3).
- Economizer complies with the heating system impact requirements (§ 6.5.1.4).
- Systems are exempt from the economizer requirements.

Specify economizer exemptions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Prescriptive Air-System Requirements

- Simultaneous Heating and Cooling (§ 6.5.2.3).
- Zone minimums were set to meet the requirements of *Standard 62*.
- Zone minimums were set to  $\leq 0.4$  cfm/ft<sup>2</sup> of zone conditioned floor area.
- Zone minimums are less than 300 cfm.
- Other (requires special documentation and approval).
- Humidity controls (if any) comply with the requirements of § 6.5.2.3.
- Systems that employ hydronic cooling and have humidification (if any) use a waterside economizer that complies with § 6.5.1.
- Variable air volume fan controls comply with the requirements of § 6.5.3.2.

### Prescriptive Water-System Requirements

- Three-pipe systems are not used (§ 6.5.2.2.1).
- Two-pipe changeover heating/cooling systems (if any) comply with the requirements of § 6.5.2.2.2.
- Hydronic (ground- or water-loop) heat pump systems that have equipment for both loop

heat addition and loop heat rejection (if any) comply with the requirements of § 6.5.2.2.3.

- System pumps greater than 10 hp employ variable flow controls (§ 6.5.4.1), pump isolation (§ 6.5.4.2) and temperature reset (§ 6.5.4.3).

### Prescriptive Special System Requirements

- All heat rejection equipment with motors  $\geq 7.5$  hp employ controls that comply with § 6.5.5.
- Exhaust Air Energy Recovery: all fan systems that have both a design supply capacity of  $\geq 5,000$  cfm and a minimum outdoor air supply of  $\geq 70\%$  of the design supply air employ an energy recovery system that complies with § 6.5.6.1.
- Heat recovery for service water heating is provided for facilities that operate continuously, have a total water-cooled heat rejection capacity exceeding 6,000,000 btu/h, and have a design service water heating load exceeding 1,000,000 btu/h. The heat recovery system (if any) complies with § 6.5.6.2.
- Kitchen hoods with exhaust flows  $> 5000$  cfm comply with the requirements of § 6.5.7.1.
- Fume hoods with a total exhaust system flow  $> 15,000$  cfm comply with the requirements of § 6.5.7.2.
- Radiant heaters complying with § 6.5.8.1 are used to heat unenclosed spaces (if any).
- The cooling equipment with hot-gas bypass controls (if any) meets the unloading requirements of § 6.5.9.

# HVAC Prescriptive Requirements

Project Name:	
Contact Person:	Telephone:

### Option 1 – Nameplate Horsepower

#### Installed Nameplate Horsepower

Tag	Description	Supply	Return	Exhaust	Series FPB	Other	Nameplate Horsepower
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

#### Allowed Nameplate Horsepower

Design Supply Airflow Rate (CFM <sub>s</sub> )	
Fan Nameplate Horsepower Allowance from Table 6.5.3.1.1A	
<b>Total Allowed Nameplate Horsepower</b>	

### Option 2 – Brake Horsepower

#### Allowed Fan Brake Horsepower

Design Supply Airflow Rate (CFM <sub>s</sub> )	
Fan Brake Horsepower Allowance from Table 6.5.3.1.1A	
Base Allowance (Line1 x Line 2)	
Additional Brake Horsepower Allowance	
<b>Total Allowed Brake Horsepower</b>	

#### Pressure Drop Adjustments for Qualifying Devices

Tag	Device Description	Pressure Drop from Table 6.5.3.1.1B	CFM through Device	Additional Brake Horsepower Allowance

#### Installed Brake Horsepower

Tag	Description	Supply	Return	Exhaust	Series FPB	Other	CFM	Pressure Drop (PD)	η <sub>Fan</sub>	η <sub>Drive</sub>	η <sub>Motor</sub>	Brake Horsepower
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						