



# **Industrial Rotary Screw Compressors**

**SX - HSD Series** 

3 - 700 hp

Capacities from: 8.8 to 3044 cfm Pressures from: 50 to 217 psig

kaeser.com

## A Philosophy Built-for-a-Lifetime™

#### Tradition and Innovation

Our compressed air heritage is built on a century of manufacturing experience. Generations of quality craftsmanship guide our engineering principles of efficiency, reliability, and serviceability. This tradition of excellence also drives new technology development. Advances in airend design, controls, and system design ensure our customers can meet the daily challenges of their manufacturing operations. Each KAESER product is designed with the future in mind, but we never lose sight of our roots. Technology may change, but the need for quality and reliability will always remain.

#### Innovation you can trust

With a cutting edge research and development team committed to building industry-leading products, KAESER continues to deliver better solutions to meet our customers' compressed air needs. KAESER's expertise and world-wide reputation for superior reliability and efficiency offer excellent performance and peace of mind.

#### Rugged reliability

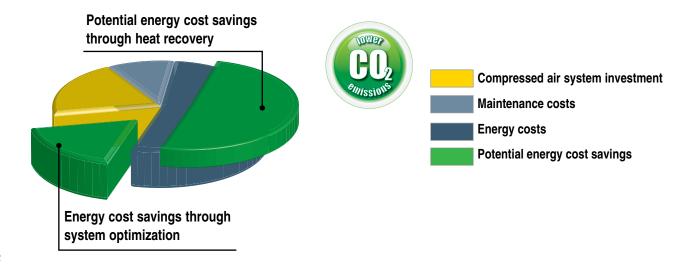
KAESER's screw compressors meet our rigorous "built for a lifetime" standard. Designed and built with KAESER's generations of manufacturing experience, you can rest assured that these compressors will continue to deliver the air you need with the exceptional reliability you expect from a KAESER compressor.

#### Service-friendly

From the ground up, these compressors have been designed with the user in mind. Fewer wearing parts and using premium quality materials ensure reduced maintenance requirements, longer service intervals, and extended service life. Smart component layouts with generously sized maintenance doors simplify service and reduce downtime.

#### **Guaranteed efficiency**

In our comprehensive design approach, KAESER chooses the components that work together in the most energy efficient way possible. Each and every component—from inlet filter to discharge flange—has been carefully selected with performance in mind. In fact, our compressors are up to 30% more efficient than the competition. With KAESER's superior integrated controls, we guarantee an efficient system with lower operating costs, however small or large your demand may be.





Today, KAESER employs nearly 8000 people and our growing distribution network provides reliable and sustainable compressed air system solutions in over 100 nations throughout the world.



#### Continuous quality control

SIGMA PROFILE® rotors are precision-machined and finished to an accuracy of 1/1000 mm. The airend's finished dimensions are measured and verified using the latest in 3D computer technology. Highly trained specialists assemble each airend according to our strict ISO 9001:2015 standards.



## Environmentally friendly powder coating system

All KAESER rotary screw compressors feature powder-coated enclosures. Our unique powder coating technique applies a super fine glaze to each individual enclosure panel. The panels are baked at 350°F for a corrosion-proof and scratch-resistant finish.



#### **Advanced machining centers**

State-of-the-art machining centers in climate-controlled rooms produce the SIGMA PROFILE rotors and casings. These machining centers operate 24 hours a day to keep up with the demand for KAESER premium quality compressors.



#### Comprehensive unit testing

Once the manufacturing and assembly process is complete, each and every screw compressor undergoes a comprehensive testing procedure to verify its mechanical and electrical operation prior to shipment. These strict testing standards ensure the highest product quality available.

### **SIGMA Product Line**

### **Premium quality comes standard**

While others offer premium features as an option, at KAESER, we believe quality should never be just an option. Our approach to design is rooted in the German traditions of quality craftsmanship, exceptional reliability, and superior energy efficiency. From using fewer wearing parts, to smarter component layouts, to easy maintenance access, our complete line of rotary screw compressors is built for a lifetime™ of energy efficient operation.



#### SIGMA PROFILE® airends

Our single-stage, flooded rotary screw airend delivers pressures up to 217 psig and features our power saving SIGMA PROFILE design. Our airends are optimized in size and profile to match the airend speeds with their best specific performance. Unlike the competition, KAESER makes many different airends so that we can apply them at their optimal speed and performance (see Graph 1).



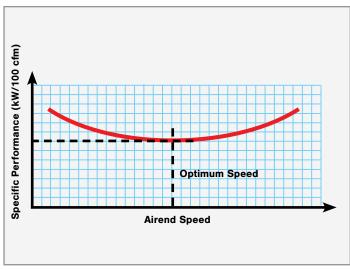
#### **Premium efficiency TEFC** motors

KAESER uses only premium efficiency Totally Enclosed Fan Cooled (TEFC) motors with class F insulation for extra protection from heat and contaminants. Magnetic wye-delta reduced voltage starting or SIGMA FREQUENCY CONTROL is standard. These energy saving features ensure low starting current and smooth acceleration (see Graph 2).

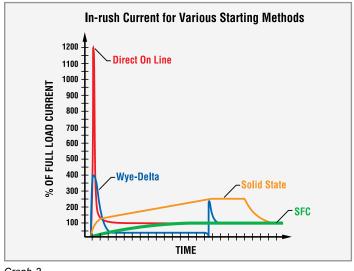


#### Efficient separator system

Our 3-stage separation system ensures very low fluid carry-over (1-3 ppm), and extended filter service life. Our no-leak design features rigid steel piping, flexible connections, and vibration isolators. Each pressure vessel is ASME coded (CRN in Canada) and includes wet side/dry side fittings to check differential pressure, an easy to read fluid level indicator, and our unique quick fluid drain system.



Graph 1



### **Package Design**

## Extremely low sound and vibration

All models come standard with KAESER's superior cabinet that features complete metal enclosures with sound proofing liners and heavy-duty vibration isolation. As a result, our compressors are about 10 dB(A) quieter than conventional compressors of equal performance.

#### Parallel cooling design

Separate air inlet zones for the compressor coolers and drive motor ensure optimum cooling and performance. Drawing ambient air directly across the coolers and motor through separate zones eliminates preheating and results in longer lubricant life and a



cooler running motor. This also results in much lower approach temperatures, improving moisture separation and air quality.

To increase reliability and reduce maintenance costs, the coolers are conveniently located on the outside of the unit, where dust and dirt build-up are easily seen and can be removed without dismantling the cooler. A powerful fan pulls air through the coolers and creates a vacuum within the cabinet that effectively cools the motor even under severe operating conditions. Top exhaust allows for easy heat recovery and reduces the system footprint.

## **Service-friendly Design**



#### Easy maintenance access

Our rotary screw compressors feature an open package layout. All of the major components are easily accessible, reducing preventive maintenance time by as much as 50% when compared to other similarly sized units.

Service doors open wide and like the panels, are easily removed. Our unique fluid separator design even allows pressurized oil changes, saving valuable time. BSD, DSD units and larger have remote grease fittings for the fan and drive motor.

When you consider the energy efficiency savings and the maintenance costs savings, it's clear that owning a *built for a lifetime™* KAESER compressor will save you money, year after year.

## **SX - AS and SFC Belt Drive Compressors**

On our 3 - 30 hp compressors, we use a space saving V-belt drive design. KAESER models include a unique automatic V-belt tensioner that maintains optimal efficiency and prolongs belt life. These models offer simple maintenance and the flexibility of changing working pressure with an easy field modification.



 SX Series
 SK Series

 3 - 7.5 hp
 15 - 20 hp

 SM Series
 AS Series

 7.5 - 15 hp
 20 - 30 hp



Performance Tested and Rathed in Accidence with the Company of the

CAGI

#### **Certified Performance**

Our compressors' energy efficiency has been tested and confirmed by an independent laboratory as part of the Compressed Air and Gas Institute's *Rotary Screw Compressor Performance Verification Program*. CAGI data sheets are available for screw compressors from 5 to 200 hp at <u>us.kaeser.com/cagi</u>.



## **ASD - HSD and SFC Direct Drive Compressors**

On larger units from 25 to 700 hp, we use mostly direct coupled drive, providing maximum power transfer and efficiency from motor to airend. Since we make more sizes of airends, we can run them at lower speeds. This design has fewer components, eliminates heat and drive losses, and reduces maintenance and related downtime.

ASD Series DSD Series 25 - 40 hp 125 - 250 hp

BSD Series ESD Series 40 - 60 hp 250 - 350 hp

CSD Series\* FSD Series 60 - 125 hp 350 - 450 hp

HSD Series 500 - 700 hp

\* Gear Driven







## **SIGMA Frequency Control**

### **Unmatched performance**

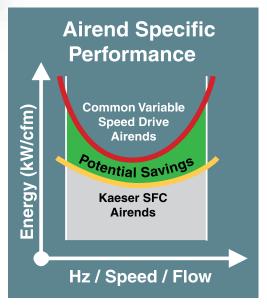
KAESER SIGMA FREQUENCY CONTROL combines the latest in Siemens drive technology with our SIGMA PROFILE airend and SIGMA CONTROL® system. Our engineers have optimized the airend design to accommodate a wide flow range with unmatched efficiency. The drive motor and airend operate at low speeds, resulting in exceptional reliability and long life. KAESER's SFC units range from 8 to 515 kW and are incredibly quiet, with noise levels as low as 67 dB(A). SFC models from 8 to 132 kW are also available with integrated dryers. SFC models 18 to 90M feature synchronous reluctance drive motors to further improve part-load efficiency.





#### **Integrated System Design**

Even though variable frequency drive compressors can have an effective flow range of 20% to 100%, the efficiency (kW/cfm) is not constant over the whole speed range. The best efficiency is normally between 40% and 85%. As the graph illustrates, the SIGMA PROFILE airend has a clear efficiency advantage over a wider flow range than the competition.



### **Integrated Systems**

### **Premium compressed air quality**

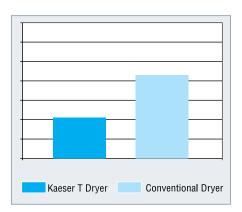
KAESER rotary screw compressors are also available in a variety of configurations. These package systems can be customized to suit your specific compressed air and air treatment needs.



50 hp compressor with integrated refrigerated air dryer.



AIRCENTERS come with an integrated refrigerated dryer and ASME coded receiver tank.



#### Climate friendly design

In addition to energy saving controls, our integrated dryers feature the new R-513A refrigerant with 56% lower global warming potential than common dryer refrigerants. Combined with our advanced heat exchanger design, we need only half the refrigerant — resulting in the most climate friendly dryer possible.

### **T Series**

Models from 3 to 175 hp are also available with air treatment equipment built in.

The T series compressors feature integrated refrigerated dryers to remove moisture and other contaminants from your air system to improve product quality and help reduce wear on production equipment.

The T models reduces overall footprint, provides easy access to service points, and prevents exposure to preheated air and contaminants from the compressor package. They also feature single point hook up to simplify your installation.

#### **AIRCENTER**

To further reduce your installation time and space requirements, KAESER offers the AIRCENTER. These complete air systems include not only the dryer, but also the air receiver tank. Available with either one (simplex) or two (duplex) SIGMA rotary screw compressors, they come pre-assembled with a refrigerated air dryer mounted on a horizontal receiver tank.

Available in a wide range of models from 3 to 40 hp, these units are perfect for small shops or plants. All systems are completely piped and wired, and ready for installation. Air treatment packages with coalescing filters and condensate drains are available options.

### **Energy Efficient Operation**

### **Intelligent control and protection**

To protect your investment and ensure the most efficient operation possible, we control our compressors with our SIGMA CONTROL® 2. This intelligent controller comes standard with multiple pre-programmed control profiles so you can select the one that best fits your application.



#### **Data Storage and Analysis:**

- SD card slot with included SD card for fast, easy software updates, storing key operational parameters
- Long-term data storage for analyzing energy consumption and compressor operation

#### **Monitoring and Maintenance:**

- Monitors more than 20 critical operating parameters
- Shuts unit down to prevent damage
- Signals if immediate service is required
- Tracks preventive maintenance intervals and provides notice when PMs are due
- RFID sensor for secure access and managing maintenance intervals

#### **Communications Capabilities:**

- Ethernet port and built-in web-server facilitate integration into the IIoT
- ModBus, Profinet®, Profibus®,
   DeviceNet™, EtherNet/IP, and other industrial communications interfaces are also available as plug in options for seamless integration into plant control/monitoring systems (optional for belt drive, standard for direct drive units)
- Sends e-mail alerts for maintenance notifications, alarms, warnings, and optional messages

### **Superior system control**

SIGMA AIR MANAGER® (SAM) 4.0 is a supervisory control system for all compressed air production and treatment components. The unique 3D<sup>advanced</sup> Control continuously analyzes the various parameters (e.g. switching and control efficiency) and calculates the ideal combination of compressors to achieve optimum efficiency.



SAM 4.0 enables predictive maintenance with its built-in maintenance reminders and messaging capabilities. These features not only boost operational reliability and efficiency, but also significantly reduce energy costs.

SAM 4.0 features KAESER CONNECT which displays your compressed air system information in real-time on your desktop or laptop computer via a standard internet browser. Simple HTML pages show the compressors' operational state, SAM's operating and system pressure data, as well as service and alarm messages.

## **Custom Engineered Solutions**

KAESER's custom air systems are designed for even the most demanding installations and harshest of environments. Our broad range of engineering solutions include outdoor modifications, skid mounting, customized enclosures, and modified containers. The SIGMA AIR UTILITY® (SAU) option lets you pay for your compressed air as a utility with the amount, pressure, and quality of the air guaranteed at all times.











SIGMA AIR UTILITY can be delivered in pre-assembled modules or installed in your plant compressor room.

## **Technical Specifications**

## **Rotary Screw Compressors**

**SX Series** 



**SM Series** 



**SK Series** 



**AS Series** 



**ASD Series** 



**BSD Series** 



**CSD Series** 



**DSD Series** 



**ESD Series** 



Model	Capacity at Operating Pressure (cfm)			
Model	125 psig	160 psig	217 psig	
SX 3	12.0	9.2	_	
SX 4	15.9	12.7	8.8	
SX 5	21.2	17.0	12.7	
SX 7.5	28.3	23.7	18.7	

Model	Capacity at Operating Pressure (cfm)			
Wodei	125 psig	217 psig		
SM 7.5	32.2	25.9	19.3	
SM 10	45.1	36.9	28.2	
SM 15	55.2	46.6	37.4	

Model	Capacity at Operating Pressure (cfm)				
Wodei	125 psig 160 psig 217 p				
SK 15	69.7	58.6	47.6		
SK 20	87.8	64.8			

Model	Capacity at Operating Pressure (cfm)			
Wodel	125 psig	217 psig		
AS 20	97.3	83.4	67.1	
AS 25	119.7	101.8	85.2	
AS 30	140.7	121.8	101.6	

Model	Capacity at Operating Pressure (cfm)				
Wodel	125 psig 175 psig 217 psi				
ASD 25	111	_	_		
ASD 30	131	109	_		
ASD 40S	163	126	105		
ASD 40	192	159	122		

Model	Capacity at Operating Pressure (cfm)					
Model	125 psig 175 psig 217 psig					
BSD 40	196	161	_			
BSD 50	237	192	157			
BSD 60	289	233	187			

Model	Capacity at Operating Pressure (cfm)			
Wodei	125 psig 175 psig		217 psig	
CSD 90	304	257	_	
CSD 110	382	307	261	
CSD 130	469	374	312	
CSD 145	548	449	_	
CSD 175	604	515	450	

Model	Capacity at Operating Pressure (cfm)			
Model	125 psig	175 psig	217 psig	
DSD 125	608	_	_	
DSD 150	712	583	_	
DSD 175	909	696	558	
DSD 200	914	707	558	
DSD 250	1075	878	689	

Model	Capacity at Operating Pressure (cfm)					
Model	125 psig 175 psig 217 psig					
ESD 250	1278	1055	842			
ESD 300	1572 1261 1020					

NOTE: SX 3 through DSD 175 are also available with integral dryer

#### **FSD Series**



#### **HSD Series**



### **Variable Frequency Drive**









- $^{(1)}$  Performance data values are only valid for 460V/3 ph/ 60 Hz. Please consult KAESER for 575V data.
- (2) Higher pressures are available.
- (3) Not available for 460V/3ph/60Hz power.
- (4) Values are for 150 psi.

For more information see our SFC brochures - USSFC-BELT, USSFC18-45S, USSFC45-110M, and USSFC75-515

NOTE: SFC 8 TO SFC 132S are available with integrated dryer.

Specifications are subject to change without notice.

Model	Capacity at Operating Pressure (cfm)				
Wodel	125 psig 175 psig 217 psig				
FSD 350	1596	1264	_		
FSD 450	2030	1567	1243		

Model	Capacity at Operating Pressure (cfm)				
Model	125 psig   175 psig   217 psig				
HSD 500	2311	1885	_		
HSD 550	2520	2062	1653		
HSD 600	2760	2266	1830		
HSD 650	3000	2471	2007		

Model	H2D 620	3000	24/1	2007	
Min   Max		Consolitus	+ 4COV(1) -+ O	novetina Dve	anna (afus)
SFC 8         MIN         13.1         12.7         13.1           SFC 11         MAX         50.1         47.7         42.7           SFC 11         MIN         21.5         21.2         22.3           MAX         74.5         71.0         64.6           SFC 15         MIN         27.2         27.2         30.0           SFC 18         MIN         32.8         32.5         27.2           MAX         126.1         118.7         110.2           SFC 18         MIN         32.8         32.5         27.2           MIN         32.8         32.5         27.2           SFC 18         MIN         32.8         32.5         27.2           SFC 28         MIN         32.8         32.5         27.2           SFC 28         MIN         32.8         32.5         27.2           SFC 22         MAX         148.0         140.6         131.0           SFC 22         MAX         148.0         140.6         131.0           SFC 30S         MIN         37         37         36           SFC 22         MAX         187         176         164           SFC 30S	Model	Capacity a		perating Pres	
SFC 8		Min / Max	110 psig	125 psig	145 psig <sup>(2)</sup>
SFC 11  MIN  SFC 15  MIN  SFC 15  MAX  MAX  MAX  MAX  MAX  MAX  MAX  MA	SEC 8	<u> </u>	13.1	12.7	13.1
SFC 11	3100		50.1	47.7	42.7
MAX	SFC 11	<u></u>			
SFC 15		<u> </u>			<del></del>
SFC 18S         MIN         32.8         32.5         27.2           MAX         126.1         118.7         110.2           SFC 18         MIN         32         32         —           SFC 18         MIN         32.8         32.5         27.2           MIN         32.8         32.5         27.2           MIN         36         36         —           SFC 22         MIN         36         36         —           SFC 30         MIN         37         37         36           SFC 30         MIN         47         49         52           SFC 30         MAX         187         176         164           SFC 37         MIN         47         49         52           MIN         47         49         52         28         193           SFC 37         MIN         54         54         43         218         218           SFC 45s         MIN         69         69         63         36         418         56         53         36         316         287         49         40         36         36         418         418         418         418<	SFC 15	<u></u>		<del> </del>	<del>-</del>
SFC 18S   MAX   126.1   118.7   110.2					
SFC 18         MIN         32         32         —           SFC 22S         MIN         32.8         32.2         —           MAX         140         132         —         27.2           MAX         148.0         140.6         131.0         36         —           SFC 22         MIN         36         36         —         —           SFC 30S         MIN         37         37         36         —         —           SFC 30S         MIN         47         49         52         —         36         —         —         36         —         —         36         —         —         48         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         311.0         36         —         —         36         —         36         —         36         —         36         —         36         —         37         36         36         —         36         36 <td< th=""><th>SFC 18S</th><th><u> </u></th><th></th><th><del> </del></th><th><del> </del></th></td<>	SFC 18S	<u> </u>		<del> </del>	<del> </del>
SFC 18         MAX         140         132         —           SFC 22S         MIN         32.8         32.5         27.2           MAX         148.0         140.6         131.0           SFC 22         MIN         36         36         —           MIN         37         37         36         —           SFC 30S         MIN         37         37         36         —           SFC 30         MIN         47         49         52         —         164         —         —         9         52         —         164         —         —         9         52         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         —         36         —         36         —         36         —         —         36         —         36         36         —         36         36         37         36         36         36         36         36         36         36         36					110.2
SFC 22S         MIN         32.8         32.5         27.2           MAX         148.0         140.6         131.0           SFC 22         MIN         36         36         —           MAX         162         154         —           SFC 30S         MIN         37         37         36           MAX         187         176         164         —           SFC 30         MIN         47         49         52           MAX         219         208         193           SFC 37         MIN         54         54         43           SFC 37         MIN         69         69         53           SFC 45S         MIN         69         69         53           SFC 45         MIN         69         69         63           SFC 45         MAX         336         316         287           SFC 45         MIN         82         81         67         69           SFC 45         MAX         336         335         332         69           SFC 45         MIN         82         81         67         69           SFC 55         MA	SFC 18				
SFC 22S         MAX         148.0         140.6         131.0           SFC 22         MIN         36         36         —           MAX         162         154         —           SFC 30S         MIN         37         37         36           MIN         47         49         52           SFC 30         MAX         219         208         193           SFC 37         MIN         47         49         52           SFC 37         MIN         54         54         43           MAX         262         248         218           SFC 45S         MIN         69         69         53           MAX         291         276         251           SFC 45         MIN         69         69         63         69           SFC 55         MIN         82         81         67         69           SFC 55         MAX         406         385         352         69           SFC 75S         MIN         104         102         82         60           SFC 75M         MAX         501         478         440         60           SFC					27.2
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SFC 22         MAX         162         154         —           SFC 30S         MIN         37         37         36           MAX         187         176         164           SFC 30         MIN         47         49         52           SFC 37         MIN         54         54         43           SFC 37         MAX         262         248         218           SFC 45S         MIN         69         69         53           MAX         291         276         251           SFC 45         MIN         69         69         63           SFC 45         MIN         69         69         63           SFC 45         MIN         82         81         67           SFC 55         MIN         82         81         67           SFC 75S         MIN         104         102         82           SFC 75S         MIN         131         129         —           SFC 75M         MAX         501         478         440           SFC 75M         MIN         131         129         —           SFC 90M         MIN         131         <					
SFC 30S         MIN         37         37         36           MAX         187         176         164           SFC 30         MIN         47         49         52           MAX         219         208         193           SFC 37         MIN         54         54         43           MIN         69         69         53           SFC 45S         MIN         69         69         53           SFC 45         MIN         69         69         63         69           SFC 45         MIN         69         69         63         69         63         69           SFC 45         MIN         89         69         63 <th>SFC 22</th> <th><u></u></th> <th></th> <th><del> </del></th> <th>_</th>	SFC 22	<u></u>		<del> </del>	_
SFC 30S         MAX         187         176         164           SFC 30         MIN         47         49         52           MAX         219         208         193           SFC 37         MIN         54         54         43           MAX         2662         248         218           SFC 45S         MIN         69         69         53           MAX         291         276         251           SFC 45         MIN         69         69         63         69           SFC 45         MIN         69         69         63         69         63         69           SFC 45         MIN         69         69         63         61         69         69         63         61           SFC 55         MIN         82         81         67         69         63         63         61         67         69           SFC 55         MIN         104         102         82         61         67         69         83         53         52         61           SFC 75         MIN         131         129         —         40         69         69 </th <th>050.000</th> <th></th> <th></th> <th></th> <th>36</th>	050.000				36
SPC 30	SFC 30S	MAX	187	176	164
SFC 37   MIN   54   54   43   43   43   43   44   43   44   43   44   43   44   43   44   44   44   45   45	CEC 20	MIN	47	49	52
SFC 37	SFC 30	MAX	219	208	193
SFC 45S   MIN   69   69   53   53   54   55   55   55   55   55	CEC 27	MIN	54	54	43
SFC 45S	350 31	MAX	262	248	218
SFC 45  MIN  MAX  MAX  MAX  MAX  MAX  MAX  MAX  MA	SEC 158	MIN	69	69	53
SFC 45   MAX   336   316   287 (%)	310 433	MAX	291	276	
SFC 55   MIN   82   81   67 (4)	SEC 45	<u></u>	69	69	
SFC 55         MAX         406         385         352 <sup>46</sup> SFC 75S         MIN         104         102         82 <sup>40</sup> MAX         501         478         440 <sup>40</sup> SFC 75M         MIN         131         129         —           MAX         576         547         —           SFC 90M         MIN         139         136         121 <sup>40</sup> MAX         675         641         509 <sup>40</sup> SFC 110M         MAX         729         700         651 <sup>40</sup> SFC 75         MIN         132         130         —           SFC 75         MAX         604         564         —           SFC 90         MIN         131         129         125           SFC 90         MIN         131         129         125           SFC 110         MAX         717         672         613           SFC 110         MAX         798         751         688           SFC 132S         MIN         201         198         188           SFC 132         MIN         201         198         189           SFC 132         MAX <th></th> <th><u> </u></th> <th></th> <th></th> <th></th>		<u> </u>			
SFC 75S   MIN   104   102   82   61	SFC 55				
SFC 75M		•			352 (4)
SFC 75M         MIN MAX         131 129 576 547 547 576         —           SFC 90M         MIN 139 136 121 130 136 121 130 131 119 133 140 111 119 133 140 111 119 133 140 111 119 133 140 111 119 133 140 111 119 133 140 140 140 140 140 140 140 140 140 140	SFC 75S	<u> </u>		•	82 <sup>(4)</sup>
SFC 75M         MAX         576         547         —           SFC 90M         MIN         139         136         121 (9)           MIN         139         136         121 (9)           SFC 110M         MIN         111         119         133 (9)           MAX         729         700         651 (9)         651 (9)           SFC 75         MIN         132         130         —           SFC 90         MIN         131         129         125           MAX         704         564         —           SFC 110         MIN         159         155         150           MAX         798         751         688           SFC 132S         MIN         201         198         188           SFC 132S         MIN         201         198         189           SFC 132         MIN         200         198         189           SFC 132         MIN         200         198         189           SFC 160         MIN         243         242         189           MAX         1177         1105         1037           SFC 200         MIN         303					
SFC 90M         MIN MAX         139 (675)         136 (641)         121 (6)           SFC 110M         MIN MIN MIN MIN MAX         111 (119)         133 (6)           SFC 110M         MIN MAX         729 (700)         651 (6)           SFC 75         MIN MAX         604 (564)         —           MAX         604 (564)         —           SFC 90         MIN MAX         717 (672)         613           SFC 110         MIN MAX         798 (751)         688           SFC 132S         MIN MAX         201 (198)         188           SFC 132S         MIN MAX         945 (198)         189           SFC 132         MIN MAX         201 (198)         189           SFC 132         MIN MAX         1016 (195)         951 (196)           SFC 140         MAX         1177 (1105)         1037           SFC 250         MIN MAX         1322 (1257 (1156)         1156           SFC 315         MIN MAX         1519 (1439)         1343 </th <th>SFC 75M</th> <th><u></u></th> <th></th> <th><u>*</u></th> <th>_</th>	SFC 75M	<u></u>		<u>*</u>	_
SFC 90M   MAX   675   641   509   60	CEC OOM			•	121 <sup>(4)</sup>
SFC 110M         MAX         729         700         651 <sup>(6)</sup> SFC 75         MIN         132         130         —           SFC 90         MIN         131         129         125           MAX         717         672         613           SFC 110         MIN         159         155         150           MAX         798         751         688           SFC 132S         MIN         201         198         188           SFC 132         MIN         200         198         189           SFC 132         MIN         200         198         189           SFC 132         MIN         200         198         189           SFC 160         MIN         243         242         189           SFC 200         MAX         1177         1105         1037           SFC 200         MAX         1322         1257         1156           SFC 250         MIN         374         370         295           MAX         1519         1439         1343           SFC 315S         MIN         374         370         351           MAX         1825	SFC 90W		675	641	509 <sup>(4)</sup>
SFC 75         MIN MAX         729 700 651           MIN MAX         604 564 —         —           SFC 90         MIN 131 129 125         —           MAX 717 672 613         —         —           SFC 110         MIN 159 155 150         —           MAX 798 751 688         —         —           SFC 132S         MIN 201 198 188         —           SFC 132 MIN 200 198 189         —         —           SFC 132 MAX 1016 951 846         —         —           SFC 160 MAX 1177 1105 1037         —         —           SFC 200 MAX 1322 1257 1156         —         —           SFC 250 MAX 1322 1257 1156         —         —           SFC 315S MIN 374 370 295         —         —           SFC 315 MIN 374 370 351         —         —           SFC 315 MIN 470 465 456         —         —           SFC 410 MAX 2164 2057 1814         —         —           SFC 515 MIN 420 412 355         —         —	SEC 110M				
SFC 75         MAX         604         564         —           SFC 90         MIN         131         129         125           MAX         717         672         613           SFC 110         MIN         159         155         150           MAX         798         751         688           SFC 132S         MIN         201         198         188           SFC 132         MIN         200         198         189           SFC 132         MAX         1016         951         846           SFC 160         MIN         243         242         189           MAX         1177         1105         1037           SFC 200         MAX         1302         1257         1156           SFC 250         MIN         374         370         295           MAX         1519         1439         1343           SFC 315S         MIN         374         370         351           MAX         1825         1742         1625           SFC 315         MAX         2164         2057         1814           SFC 410 <sup>(3)</sup> MAX         2164         2057					651 🖑
SFC 90         MIN         131         129         125           MAX         717         672         613           SFC 110         MIN         159         155         150           MAX         798         751         688           SFC 132S         MIN         201         198         188           SFC 132         MIN         200         198         189           SFC 132         MIN         200         198         189           SFC 160         MIN         243         242         189           SFC 200         MIN         303         300         290           MAX         1177         1105         1037           SFC 200         MAX         1322         1257         1156           SFC 250         MIN         374         370         295           MAX         1519         1439         1343           SFC 315S         MIN         374         370         351           MAX         1825         1742         1625           SFC 410 <sup>(3)</sup> MAX         2164         2057         1814           SFC 515         MIN         368         364	SFC 75			•	_
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SFC 110         MIN MAX         159 798         155 751         688           SFC 132S         MIN 201 198 188         188           MAX 945 885 786         885 786           SFC 132         MIN 200 198 189         189           MAX 1016 951 846         951 846           SFC 160 MAX 1177 1105 1037         1037           SFC 200 MAX 1322 1257 1156         1156           SFC 250 MAX 1322 1257 1156         1156           SFC 315S MIN 374 370 295         351           MAX 1825 1742 1625         1742 1625           SFC 315 MIN 470 465 456         456           SFC 410 <sup>(9)</sup> MAX 2164 2057 1814         2057 1814           SFC 515 MIN 420 412 355	SFC 90			•	
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SFC 132S         MAX         945         885         786           SFC 132         MIN         200         198         189           MAX         1016         951         846           SFC 160         MIN         243         242         189           MAX         1177         1105         1037           SFC 200         MIN         303         300         290           MAX         1322         1257         1156           SFC 250         MIN         374         370         295           MAX         1519         1439         1343           SFC 315S         MIN         374         370         351           MAX         1825         1742         1625           SFC 315         MIN         470         465         456           MAX         2164         2057         1814           SFC 410 <sup>(9)</sup> MIN         368         364         299           MAX         2615         2537         2291           SFC 515         MIN         420         412         355	350 110				
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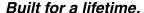
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