

Product Noise Declaration in Compliance with ISO 7779 and ISO 9296

ThinkStation P320 Series

I .Configuration Information¹

Components	HIGH END Configuration
FFs	Tower
CPU	Intel Xeon E3-1245 v6 (3.7GHz / 4C / 6M / HT)
Memory	16GB (2x8GB) 2400MHz DDR non-ECC UDIMM
HDD	512GB M.2 PCIe SSD
VGA	NVIDIA QUADRO P2000
PSU	400W 92% Power supply

Components	ENTRY Configuration
FFs	Tower
CPU	Core i5-7400 (3.0GHz / 4C / 6M)
Memory	8GB 2400MHz DDR non-ECC UDIMM
HDD	256GB SATA 2.5" SSD
VGA	Integrated Intel HD graphics
PSU	250W Power supply

Components	HIGH END Configuration
FFs	SFF
CPU	Intel Xeon E3-1225 v6 (3.3GHz / 4C / 6M)
Memory	16GB (2x8GB) 2400MHz DDR non-ECC UDIMM
HDD	512GB M.2 PCIe SSD
VGA	NVIDIA QUADRO P600
PSU	210W ES Power supply

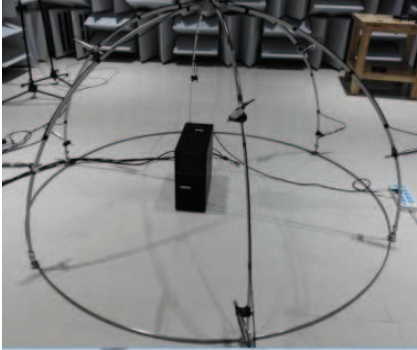
Components	ENTRY Configuration
FFs	SFF
CPU	Core i5-7400 (3.0GHz / 4C / 6M)
Memory	8GB 2400MHz DDR non-ECC UDIMM
HDD	256GB SATA 2.5" SSD
VGA	Integrated Intel HD graphics
PSU	210W ES Power supply


II.Machine Types

FFs	Machine Types
Tower	30BG;30BH;30BW;30BR;30BT
SFF	30BK;30BJ;30BS

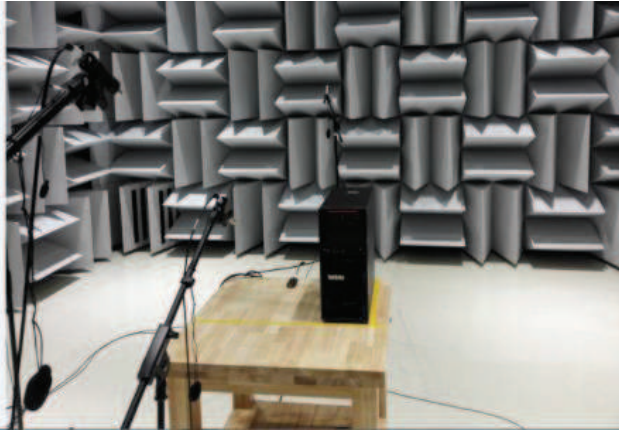
III. Acoustic Noise Emissions Declaration²


1. Declared Sound Power Level


Description		L _{WAd} (bels)		Picture
		Idle	Oper	
Tower	HIGH END Configuration	3.4	3.4	
	ENTRY Configuration	3.1	3.1	


Description		L _{WAd} (bels)		Picture
		Idle	Oper	
SFF	HIGH END Configuration	3.6	3.6	
	ENTRY Configuration	3.6	3.6	


2.Declared Sound Pressure Level

Tower				
Mode Position	Vertical(dBA)-Table-top			
	HIGH END Configuration		ENTRY Configuration	
	Idle	Oper	Idle	Oper
Operator	22	23	20	20
Bystander	19	20	17	17
Picture				

Tower				
Mode Position	Vertical(dBA)-Floor-standing			
	HIGH END Configuration		ENTRY Configuration	
	Idle	Oper	Idle	Oper
Operator	18	18	16	16
Bystander	16	16	14	14
Picture				

SFF				
Mode Position	horizontal(dBA)-Table-top			
	HIGH END Configuration		ENTRY Configuration	
	Idle	Oper	Idle	Oper
Operator	26	26	25	25
Bystander	21	21	20	20
Picture				

SFF				
Mode Position	Vertical(dBA)-Table-top			
	HIGH END Configuration		ENTRY Configuration	
	Idle	Oper	Idle	Oper
Operator	24	24	24	24
Bystander	19	19	18	19
Picture				

SFF				
Mode Position	Vertical(dBA)-Floor-standing			
	HIGH END Configuration		ENTRY Configuration	
	Idle	Oper	Idle	Oper
Operator	17	17	16	16
Bystander	16	16	15	15
Picture				

Legend:

- L_{WAd} -Declared (upper limit) A-weighted sound power levels for a random sample of machines, in bels.
- Operator -Mean value of A-weighted sound pressure levels at the operator position, for a random sample of machines, in dBA. The operator position is located 0.5m from the front of the system unit.
- Bystander -Mean value of A-weighted sound pressure levels averaged over four bystander positions, for a random sample of machines, in dBA.
- Idle -Indicates idle condition (system is powered on, but no disk activity).
- Oper -Indicates operating condition (hard disk drive is randomly seeking).

Notes:

1. The declared acoustic noise value is based on a typically configured product. If optional items be added or removed, the acoustic noise value should be changed correspondingly.
2. All test are performed according to ISO 7779 and declared according to ISO 9296 .if power consumption changed,the acoustic noise value should be changed correspondingly.

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