**الموضوع: المواصفات الفنية لأجهزة عيادة الأنف والأذن والحنجرة**

**Technical Specifications for *ENT Unit***

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| **No.** | **Technical Specifications** | **Min KAUH Requirement** |
| 1 | Manufacturer | Please specify manufacturer and country of origin |
| 2 | Model Number | Please specify model number of the offered equipment |
| 3 | Safety Standard | FDA approval or CE marking |
| 4 | Suction system | * Powerful suction system with capacity minimum or 55L/min, direct docking system. * Secretion canister can easily changed and cleaned from a front access. * Protection against overflow and contamination (hydrophobic filter). * Hose rinsing to prevent blockage and odor formation. |
| 5 | Compressed air module | * Consist of different medicament sprayers positioned in a holder integrated in the working surface. * Integrated air compressor unit, max. 2 bar. * One-handed operation, for adaptation and decoupling of the unit. |
| 6 | Endoscopy management module | * Heated rigid endoscopes holders qty: 2 * Heated flexible endoscopes holder qty: 1 |
| 7 | Visualization system module | * LED light cube consists of 2-channel fanless LED light. * Brightness light source : 210klx ± 10%, 250W. * Service life LED light source: 50000h. * Additional LED light handle and LED channel for direct connection to endoscope by means of integrated power socket. |
| 8 | ENT Camera with monitor | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | * USB Endoscopy camera with endoscope adaptation via click-mechanism (snap-on), , Automatic zoom for maximum images size according to display used.  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | * Automatic detection of endoscope type and adjustment of related image settings.  |  | | --- | | * Water proof/ washable camera head, chemical resistant. | | * Automatic centering of endoscopic image. | | * Image sensor: 1/2.5" CMOS - 5 Megapixel (2592 H x 1944 V). |  |  | | --- | | * PC Monitor , 21'' inch with touch screen. | | * Monitor support with flexible adjustment (horizontal / vertical / tilt). | | | |
| 9 | Documentation System | Central software system for recording,Saving and displaying medical images and recorded videos in addition to Patient data management. |
| 10 | ENT instrument cabinet | * storage compartment with roller shutter. * Ear speculum rack. * Deposit drawer for used instrument. * Mirror quick heater. * Instrument trays. |
| 11 | Stroboscope module | * Noiseless stroboscope with flash light and pilot light for vocal cord diagnostics based on LED technology. Including attachable LED light. * Flash frequency: 70-1000Hz ± 1 Hz without reduction. * Sound level metering range: 70-125 dB ± 1dB. * Operating modes: continuous light, slow motion 0.5-2 Hz. * Frozen image 0˚-400˚. * Footswitch adjustable. |
| 12 | ENT examination microscope with integrated | |  | | --- | | * integrated high performance, Fanless white-light-LED. | | * Automatic light control over tilt sensor. | | * Optimized stereo effect by 24 mm stereo basis. | | * Luminescence: min. 120 kLux (200 mm), min. 80 kLux (250 mm). | | * min. 55 klux (300 mm), min. 30 klux (400). | | * Service life LED: 50.000 h, Color temperature: 5.500 K ±10%. | | * Objective 250 mm (manual fine focusing 17 mm). | | * 5-steps magnification changer. | | * Binocular straight tube, 10-times. | | * Adapter endoscopic camera to utilize the available endo camera. | | * Same brand of ENT unit manufacturer or from well known brand | |
| 13 | ENT patient chair with electric height adjustment | |  | | --- | | * hight adjustment by built in foot switch. | | * Upper part rotates 360°. | | * Detent on both sides. | | * Manually adjustable backrest from + 7° forward to flat position. | | * Height adjustable headrest. | | * Synchronously coupling of the backrest, leg rest and arm rests. | | * Retractable foot support. | | * Arm rests can be folded up to easily reach the patient. | | * Seat access height: 58 cm. | | * Max lifting capacity: 200 kg. | | * Backrest height: 60 / 78 cm. | | * Same ENT unit manufacturer. | |
| 14 | Doctor’s chair with 5 double castors | |  | | --- | | * Height adjustment by gas spring system. | | * Backrest infinitely variable in height. | | * Rotatable backrest (approx. 180°) for use as elbow rest. | | * same ENT unit manufacturer. | |
| 15 | Main Power | 220 - 240 VAC , 50 Hz |