**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.
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| 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.
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| 6 | Endoscopy management module | * Heated rigid endoscopes holders qty: 2
* Heated flexible endoscopes holder qty: 1
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| 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.
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| 8 | ENT Camera with monitor |

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| * USB Endoscopy camera with endoscope adaptation via click-mechanism (snap-on), , Automatic zoom for maximum images size according to display used.

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| * Automatic detection of endoscope type and adjustment of related image settings.

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| * Water proof/ washable camera head, chemical resistant.
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| * Automatic centering of endoscopic image.
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| * Image sensor: 1/2.5" CMOS - 5 Megapixel (2592 H x 1944 V).
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| * PC Monitor , 21'' inch with touch screen.
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| * Monitor support with flexible adjustment (horizontal / vertical / tilt).
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| 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.
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| 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.
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| 12 | ENT examination microscope with integrated |

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| * integrated high performance, Fanless white-light-LED.
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| * Automatic light control over tilt sensor.
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| * Optimized stereo effect by 24 mm stereo basis.
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| * Luminescence: min. 120 kLux (200 mm), min. 80 kLux (250 mm).
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| * min. 55 klux (300 mm), min. 30 klux (400).
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| * Service life LED: 50.000 h, Color temperature: 5.500 K ±10%.
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| * Objective 250 mm (manual fine focusing 17 mm).
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| * 5-steps magnification changer.
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| * Binocular straight tube, 10-times.
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| * Adapter endoscopic camera to utilize the available endo camera.
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| * Same brand of ENT unit manufacturer is a must.
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| 13 | ENT patient chair with electric height adjustment  |

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| * hight adjustment by built in foot switch.
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| * Upper part rotates 360°.
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| * Detent on both sides.
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| * Manually adjustable backrest from + 7° forward to flat position.
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| * Height adjustable headrest.
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| * Synchronously coupling of the backrest, leg rest and arm rests.
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| * Retractable foot support.
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| * Arm rests can be folded up to easily reach the patient.
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| * Seat access height: 58 cm.
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| * Max lifting capacity: 200 kg.
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| * Backrest height: 60 / 78 cm.
 |
| * Same ENT unit manufacturer.
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| 14 | Doctor’s chair with 5 double castors |

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| * Height adjustment by gas spring system.
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| * Backrest infinitely variable in height.
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| * Rotatable backrest (approx. 180°) for use as elbow rest.
 |
| * same ENT unit manufacturer.
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| 15 | Main Power | 220 - 240 VAC , 50 Hz |